合同编号：OPPR-SRB-202209-001/HW

匈塞铁路

塞尔维亚境内诺维萨德-苏博蒂察-边境（克莱比奥）

通信信息设备及服务采购合同

买方：CRSC INTERNATIONAL CO., LTD. OGRANAK BEOGRAD

卖方：HUAWEI TECHNOLOGIES D.O.O.,BEOGRAD

（一）合同协议书

项目名称：匈牙利-塞尔维亚铁路塞尔维亚境内诺维萨德-苏博蒂察-边境（克莱比奥）区段工程通信和信息系统

合同号： OPPR-SRB-202209-001/HW

买方：CRSC INTERNATIONAL CO., LTD. OGRANAK BEOGRAD

卖方：HUAWEI TECHNOLOGIES D.O.O.,BEOGRAD

买方为获得【匈牙利-塞尔维亚铁路塞尔维亚诺维萨德至苏博蒂察段通信信息设备采购合同】设备供货、技术服务和质保期服务，已接受卖方所作的全部承诺，买方和卖方共同达成如下协议。

鉴于：买方与铁总国际塞尔维亚分公司（以下简称“承包商”）于 2021 年 10 月 19 日签订了《匈牙利-塞尔维亚铁路塞尔维亚境内诺维萨德至苏博蒂察区段现代化与改造项目系统集成项下通信信息与信号工程分包合同附件 1》（以下简称“主分包合同附件 1”）

鉴于：卖方（或其母公司华为技术有限公司）参与了买方组织的匈牙利--塞尔维亚铁路塞尔维亚境内诺维萨德至苏博蒂察区段工程通信信息系统设备及服务询价（询价函编号：HSR-C-RFQ-20220426-001，以下简称“本项目”），知晓询价内容，并承诺提供满足要求的系统设备及服务。

1、买卖双方本着互利互惠的原则，经友好协商，就如下条款达成一致，并签订此设备采购合同。本协议书与下列文件一起构成合同文件：

（1）合同协议书；

（2）专用合同条款；

（3）通用合同条款；

（4）供货要求；

（5）分项报价表；

（6）技术规格书；

（7）技术服务和质保期服务计划

2、上述合同文件互相补充和解释。如果合同文件之间存在矛盾或不一致之处，以上述文件的排列顺序在先者为准。

3、签约合同价：

17,450,000（不含税）US DOLLAR。其中，设备：14,750,000 US DOLLAR，服务：2,700,000 US DOLLAR

4、卖方承诺保证完全按照合同约定提供技术服务和质保期服务并修补缺陷。

5、买方承诺保证按照合同约定的条件、时间和方式向卖方支付合同价款。

6、卖方承诺：

6.1 买方依据与卖方在本项目中的各自责任、义务拟定本合同，具体条款以本合同约定的为准。

6.2 本合同项下所有技术服务及质保期内服务由卖方负责，在合同执行过程中，由于卖方提供的服务

不符约定，卖方应按本合同约定承担违约责任。

7、服务：

7.1 本项目下规划设计、培训、调试、维保服务由卖方负责，包括质保期内发生的设备和服务风险及责任全部由卖方承担，买方不承担任何费用和责任。

7.2 本项目中，买方不再承担本次与卖方签署合同外的任何服务费用支付。

7.3 本合同中的调试、技术服务、质保期服务等服务内容指卖方对本项目下全部货物提供的服务。货物明细详见附件。

8、质保期：

质保期按照专用条款第 8 7 条执行，质保期内发生的全部质保相关工作和费用均由卖方负责。

除本合同约定的物资外，如承包商根据本工程实际需要提出的材料、设备需求，经买方与承包商及卖方书面确认的属于合理范围内的，卖方均需免费提供。

9、货币及汇率：

签约：USD

开票、付款：RSD

汇率：根据卖方开票日当天塞尔维亚央行 USD /RSD Buying Exchange Rate 确定。

10、付款方式：按照专用条款第 32 条执行。

11、增值税发票：税率为 20%。

12、本合同协议书一式六份，合同双方各执三份。

13、本合同未尽事宜，双方另行签订补充协议，补充协议是合同的组成部分。

14、合同使用的语言文字为中文，英文，塞尔维亚文（如需），中英文不一致时以中文为主，专用术语使用外文的，应附有中文注释。

买方：CRSC INTERNATIONAL CO., LTD. OGRANAK BEOGRAD（盖单位章）

法定代表人（单位负责人）或其委托代理人：（签字）

年　　月　　日

卖方：HUAWEI TECHNOLOGIES D.O.O.,BEOGRAD（盖单位章）

法定代表人（单位负责人）或其委托代理人：（签字）

年　　月　　日

高峰

2022.09.19

（二）专用合同条款

本专用合同条款是对通用条款相关约定的变更、替换或补充。专用条款与通用条款约定冲突、矛盾的，以专用条款约定为准。

1. 一般约定

1.1 词语定义

1.1.1 合同当事人

1.1.1.1 买方：CRSC INTERNATIONAL CO., LTD. OGRANAK BEOGRAD

单位地址： Belgrade, Belgrade-Zemun, Majevička 2m

联系人：于杨

电话：+86 18610087123

电子邮箱地址：407yuyang@crscd.com.cn

1.1.1.2 卖方：HUAWEI TECHNOLOGIES D.O.O.,BEOGRAD

单位地址：Serbia-Belgrade-Omladinskih brigada 90D

联系人：陈晨

电话：00381648552580

电子邮箱地址：chsuchayen.chen@huawei.com

1.1.1.3 建设项目：匈塞铁路塞尔维亚诺维萨德至苏博蒂察段通信信息系统

1.1.1.4 “卖方代表”指卖方委派的负责与买方等相关单位联系的人员。

卖方代表：

姓名：邵周敏

电话：00381648552617

电子邮箱地址：shaozhoumin@huawei.com

1.2 合同的生效及变更

1.2.1 一般情况下合同约定内容不予调整。在合同执行过程中，如买方按实际需要须对合同设备规格、数量、交货地点和交货期进行调整，可依据工程进度提前 30 日书面向卖方发出变更通知，经双方协商一致并签署书面补充协议后执行。

无论本合同是否有相反或相似约定，在合同履行过程中，如需对合同进行变更，双方应签订书面协议，并经双方法定代表人（单位负责人）或其授权代表签字并加盖单位章后生效。

1.2.1.1 如果数量发生变化，根据合同约定的价格调整合同金额。

1.2.1.2 因工程实际原因导致合同设备规格型号发生变更，买卖双方应按照以下原则处理：

（1）合同“分项报价表”中有适用于变更规格型号的，采用该规格型号的出厂单价；

（2）合同“分项报价表”中无适用于变更规格型号，但有类似规格型号的，可在合理范围内参照类似规格型号的出厂单价，由买卖双方商定变更规格型号的出厂单价；

（3）合同“分项报价表”中无适用或类似规格型号出厂单价的，可按照成本加利润原则或参考同期市场价，由买卖双方商定变更规格型号的出厂单价。

1.2.1.3 追加采购金额累计调整幅度一般不超过原始合同总金额的10%。

1.2.1.4 买方要求调整合同设备规格或数量的，卖方可以申请延长履约时间并书面通知买方，买方同意后执行。

1.3 联络

1.3.1 卖方应设卖方代表，负责合同设备生产、供货、质量检验、交接、调试、技术服务（含售后服务）等环节的业务协调以及与买方等相关单位的联络，并在合同生效后10日内向买方书面提供卖方代表的职务及授权书。

1.3.2 卖方代表的变更、撤销应书面通知买方。买方有权根据卖方代表的工作情况，提出撤换人员的要求。卖方应根据第1.3.1目的要求尽快重新任命上述人员，在新任人员到位前原卖方代表继续承担第1.3.1目的职责。

1.3.3 买方负责督促和检查卖方的合同履行情况。

2. 合同价格与支付

2.1 合同价款的支付

2.1.1 设备款支付

2.1.1.1 预付款：本合同生效后【45】日内，卖方提交对应设备部分合同金额的增值税发票，买方支付卖方合同设备款的【50%】，支付方式为【电汇】。

2.1.1.2 交货款：本合同项下设备到达买方指定仓库检验合格，卖方提交下所列单证后，买方在【60】日内向卖方支付到货批次合同设备款的【50%】，支付方式为【电汇】。

（1）已交货且未结算物资的商业发票及付款申请书；

（2）买方出具或经买方认可的验收单据；

（3）买方签署的收货清单；

（4）卖方出具的交货款对应增值税发票。

买方收到上述所列的单据，按合同条款约定对单据的真实性、准确性进行审核，作为支付的依据。

2.1.2 服务款支付

2.1.2.1 预付款：本合同生效后【45】日内，卖方提交对应服务部分合同金额的增值税发票，买方支付卖方服务调试款的【15%】，支付方式为【电汇】。

2.1.2.2 服务安装调试款：合同需调试设备到货（经验收合格）并完成安装调试，经买方验收合格后，卖方凭验收合格文件及支付申请函向买方申请支付价款，买方收到上述单据经审核无误，卖方提交对应金额的增值税发票，买方在【60】日内向卖方支付合同服务费的【80%】，支付方式为【电汇】。

2.1.2.3 项目交付：项目正式向业主交付后，卖方凭验收记录、相关试验报告以及支付申请函申请支付价款，买方收到上述单据经审核无误，卖方提交对应金额的增值税发票，买方在【60】日内向卖方支付合同服务费的【5%】。

3. 监造及交货前检验

3.1 监造

如承包商要求实施驻场监造的，则由买方提前 5 个工作日书面通知卖方，由卖方组织执行。

3.2 交货前检验

在发布任何发货单前，卖方有义务提前 14 天提交所有必要文件证明装运的货物符合本合同及技术文件（包括施工图设计文件及技术规格书）规定的所有技术标准和质量标准；买方有权参与交货前检验。

在交货前，卖方应按合同要求对合同设备的质量、规格、性能、数量和重量等进行全面详细的检验，并出具一份证明合同设备符合规定的检验证书，但不作为有关质量、规格、数量或重量的最终检验定论，也不作为对抗买方对产品质量、规格、数量或重量异议的证据。检验证书应随附卖方检验的结果和细节文件。

4. 设备包装、标记、运输和交付

4.1 设备包装

4.1.1 为便于买方物资出入库管理，合同设备的标识须按买方相关规定执行，具体要求见附件《货物标识要求》。合同设备的包装、标记和证件，须符合符合塞尔维亚共和国法律和法规规定的货物公共交通要求及项目执行需要，严格遵守国家有关规定并符合买方的合理要求。

4.1.2 由于包装不当或采取防范措施不充分致使合同设备损坏或丢失时，卖方均应负责修理、更换或赔偿。如因卖方原因造成合同设备的误运，卖方应承担由此发生的相应费用。

4.2 设备运输及贸易术语

4.2.1 合同设备交货前运输途中毁损、灭失的风险由卖方承担并由卖方与承运人、承保人办理理赔事宜；合同设备运输交付给买方后，相关设备的毁损、灭失的风险由卖方转移至买方，交付时点以买方签收物流单据为准。

4.2.2 卖方应按本合同约定组织供应，贸易术语 DDP 塞尔维亚，合同设备应在要求的时间前送达交货地点。

4.3 设备交付

4.3.1 卖方应调查设备的现场使用环境条件，使其满足设备使用要求。卖方应根据合同约定的交付时间和批次在现场交货地点将合同设备交付给买方，并视为卖方完成设备交付义务。

5. 开箱检验、调试、考核、验收

5.1 开箱检验

5.1.1 合同设备的开箱检验程序如下：

（1）到货检查

（2）开箱检验

5.1.2 到货检查（买方仓库）

5.1.2.1 合同设备及技术文件由卖方负责运抵买方仓库后，买卖双方共同按如下要求对其进行检查：

（1）专用合同条款 21“技术资料”中要求应提交的技术文件资料齐全；

（2）满足通用合同条款及供货要求中对“包装、标记”的要求；

（3）外观良好；

（4）编号、数量和名称与卖方装运前通知买方的货物清单核实无误。

5.1.2.2 到货检查前，若因卖方原因发生合同设备短缺、损坏或其他与合同约定不符的情形而导致合同规定的工期延误，则买方有权就因此造成的损失向卖方索赔。

5.1.2.3 到货检查后，买卖双方应做好到货检查记录，并由双方授权代表签字。

5.1.3 开箱检验（施工现场）

5.1.3.1 买方将货物运抵施工现场后应进行开箱检验。开箱检验在合同设备到货检查后一定期限内进行，买方应按通用合同条款 5.1.1 要求通知卖方。

5.1.3.2 开箱检验内容包括：

（1）检查密封包装物的完好性；

（2）检查、核对装箱货物数量、型号与发货清单是否一致；

（3）检查装箱货物编号、数量和名称与合同要求的货物清单是否一致；

（4）现场人员根据供货要求能检验的其他内容。

5.1.3.3 开箱检验发现的相关问题，由卖方进行补换货处理。补换货的设备须满足相关合同约定要求。

5.2 调试

5.2.1 卖方提供调试及其他相关技术服务。

5.2.2 根据项目实施需要，由买方提出需求，卖方负责对本项目设备各项指标、功能进行检查、试验等，并协助买方完成项目开通运营前的调试和验收工作。包括但不限于以下内容：

5.2.2.1 无线子系统调试

（1）编号方案的编制

根据客户编号规划规则，卖方在系统中配置相关编号参数。

（2）加电前检查

基站加电前，对基站设备的电源配线、射频电缆、机柜配线及相关的重点部分进行检查确认。基站设

备加电，依次加电并检查设备各电源和单板供电情况，确保供电回路的工作电压和电流正常。

（3）基站子系统参数配置

接口数据配置；小区数据配置；系统消息数据配置；切换数据配置。

（4）基站子系统调试

链路指示调试：通过本地维护终端对 Abis 接口、上下行链路等进行检查，确保链路正常。

基本性能测试：查看单板运行状态、查询信道状态、查询基站对象的属性、查看 CPU 占有率、设置时钟时延、复位、告警等。

设备控制调试：进行单板自检、链路环回测试、主备倒换试验等。

发射指标调试：最大发射功率、载频功率、发射机调制频谱等。

接收指标调试：接收灵敏度、同频干扰保护比、邻频干扰保护比等。

5.2.2.2 场强及干扰调试

系统应进行全线场强及网内越区干扰检测，对于不满足设计文件要求的场强覆盖及网内越区干扰，针对具体原因进行下列调整：天线方位角、俯仰角；基站设备发射功率；中继设备发射功率；设备参数调整；天馈线驻波比，并对承包商清频工作提供协助。

系统调整后重新进行场强及网内越区干扰复测，直至达到设计要求。

5.2.2.3 系统业务及功能试验

（1）语音功能试验

语音功能试验包括：点对点语音呼叫； 发起方以 GSM-R 组 ID 发起的语音广播(VBS)；语音组呼(VGCS)；移动发起方以紧急呼叫组 ID 发起的紧急呼叫。

（2）数据功能试验

数据功能试验：电路域数据传输；分组域数据传输功能。

5.2.2.4 有线子系统调试

（1）加电前检查

设备加电前，对传输、数通设备的电源配线、网线、光纤跳线等机柜配线及相关的重点部分进行检查确认。设备加电，依次加电并检查设备各电源和单板供电情况，确保供电回路的工作电压和电流正常。

（2）有线子系统参数配置

本机数据配置；接口数据配置；系统消息数据配置。

（3）有线子系统调试

链路指示调试：通过本地维护终端传输接口、链路等进行检查，确保链路正常。

基本性能测试：查看单板运行状态、查询传输信道状态、查询设备对象的属性、查看 CPU 占有率、设置时钟时延、复位、告警等。

设备控制调试：进行单板自检、链路环回测试、主备倒换试验等。

传输指标调试：最大传输速率、传输抖动、传输丢包率等。

5.2.2.5 传输质量测试

系统应进行全线波分、IP、SDH进行传输质量测试，针对不满足设计文件要求的抖动、丢包率等原因进行下列调整：光纤接口类型检查、光放、光衰检查等。系统调整后重新进行传输质量复测，直至达到设计要求。

5.2.2.6 系统业务及功能试输

（1）站点功能试验

站点功能测试包含站内设备的点对点数据传输、设备与设备间的数据交换传输。

（2）系统数据试验

数据功能试验：站点与站点之间的设备、系统数据交换。

5.2.3 卖方在调试、试验、测试等期间应使用在检定有效期内合格的仪器仪表。

5.2.4 现场调试前，卖方应及时向买方提供调试计划、调试方法和调试要求报告，经买方同意后方可进行调试。

5.2.5 在调试期间，卖方应向买方递交报告，该报告须包含如进度、事故、存在的不利因素、可能的延误及补救方法的建议等内容，对紧急情况，卖方须随时向买方通报。

5.2.6 卖方应针对调试的各个阶段提供建议方案、试验内容、方法、标准，以及试验所需时间。

5.2.7 因卖方调试小组错误的行为而使调试工作计划受到不利影响或质量控制方案、安全规则和现场治安秩序的保障受到影响，买方有权干预或命令暂停调试，由此引起的责任由卖方承担。

5.2.8 在安装、调试过程中，因卖方原因导致合同设备性能指标、功能未能达到供货要求规定的，卖方应承担责任。买方有权就因此造成的损失向卖方索赔。

5.2.9 安装、调试合格后，不免除卖方在质保到期前对合同设备质量、安全的主体责任。

5.3 验收

5.3.1 本条所述验收，系指就本合同项下设备的数量、规格、质量进行检验及确认的工作。

5.3.2 买方有权对验收合格后的设备交有资质的检验部门检验，如果任何被检测或测试的合同设备不能满足技术规格的要求，卖方应及时更换，或者根据买方要求对缺陷免费进行修复以满足技术规格的要求，并承担该部分检验费用。

5.3.3 买方在合同设备到达最终使用地点后对合同设备进行检验和测试，如发现质量问题，买方有权利要求卖方更换为满足合同要求的设备，直到再次通过买方或其代表的检验、测试和认可。

6. 技术服务

6.1 基本要求

6.1.1 卖方应提供合同设备全寿命周期的技术服务和技术支持，包括但不限于合同设备的设计联络、出厂检验、包装、运输、保险、安装督导、调试、培训、试验、试运行、维修维护。

6.1.2 卖方提供的技术服务人员应相对固定，在整个工程安装、调试、试运行及质量保证期内，未经买方同意卖方不得随意更换其技术服务人员。

6.1.3 技术服务人员在技术服务期间应对买方技术、管理人员提供塞尔维亚语及英语就技术资料进行详

细讲解、进行必要的示范操作并随时解答买方人员提出的技术问题。培训计划中应含有所有必需的书面文件。文件应采用塞尔维亚语和英语编制。

6.1.4 卖方有义务按照买方的要求提供样本及数据，包括但不限于生产标准样本、合同规定的样本以及因合同变更要求提交的附加样本。 所有样本应附有一个标签，标签注明原产地及在本项目中计划应用的部分。

6.1.5 无线部分：设备交付后 15 年内，其他系统：质量保证期满后 5 年内，卖方应按不高于质量保证期内的技术服务单价向买方提供设备正常运用所需的技术服务和技术支持。

6.2 设计联络

在合同签订后，买方有权要求召开工程设计联络会议，根据工程进展情况，提前确定每次工程设计联络会议的相关事宜。

6.3 工程设计技术支援

6.3.1 卖方应对买方工程设计全过程提供技术支援，并确保工程设计的顺利进行。

6.3.2 买方在工程设计中，需要扩充和调整卖方提供的设备时，卖方应协助更改设备数量并对设备配置和设备间的接口提出建议或方案。

6.3.3 买方在工程设计过程中可随时向卖方提出有关设备和系统性能方面的技术咨询，卖方应负责及时解答并提供工程设计所需各项技术资料。

6.3.4 工程设计技术支援不增加额外的工程及服务费用。

6.4 安装技术督导

6.4.1 卖方应提供设备安装督导以及硬软件设备调试的技术服务，并进行现场培训。

6.4.2 卖方应对由买方负责安装的设备进行全程督导，对安装质量进行确认。

6.5 质量保证期内的技术服务

6.5.1 远程支持服务

卖方应向买方提供远程支持服务，服务热线提供 7×24 小时服务，包括但不限于：一般系统咨询、产品咨询、硬件咨询、软件咨询、数据咨询、获取资料等。

6.5.2 现场支持服务

在质量保证期内，如合同设备发生故障，且需卖方赴现场处理的，卖方应在收到买方通知后，在供货要求规定或双方协定的时间内到场处理故障。

6.5.3 维护、维修服务

6.5.3.1 在质量保证期内，卖方应按买方或设备维护单位的要求免费派出技术人员到现场对买方人员的日常维护给予技术指导。

6.5.3.2 卖方所提供的设备在质量保证期内发生因设备原因导致的问题，卖方应及时向买方及最终用户免费提供维护所需的技术与其它支援。

6.5.3.3 卖方应免费提供工程实际需要的设备维护及维修专用设备、工具、仪表（如有）。

6.5.4 设备硬件及软件局部修改

6.5.4.1 在工程实施及质量保证期内，任何因卖方原因导致的设备修改和软件更换，由卖方免费更换或修改。

6.5.4.2 因过渡工程、临时工程需要，在供货设备中进行过渡工程及临时工程时，卖方应积极配合，负责相关设备的修改以及过渡、临时软件的编制等工作，以确保工程顺利进行，不再另行增加费用。

6.5.4.3 与合同设备联网的其它系统与合同设备不同步开通时，每次开通卖方均应派技术人员配合。

6.5.5 软件版本升级

6.5.5.1 卖方提供的软件应为最新成熟版本。在质量保证期内，如推出新的商用版本，应给予免费升级。

6.5.5.2 在软件升级时，设备软件和网管软件应在线平滑升级，在升级达不到预期目的时，卖方应免费恢复升级前软件版本和相应的数据库。

6.6 培训

6.6.1 培训对象

6.6.1.1 卖方应对买方及最终用户的工程技术人员、施工安装人员、维护管理人员及操作运用人员提供良好的技术培训条件，使其能胜任设备的安装、调试、维修、软硬件故障处理以及熟练掌握设备的操作使用。

6.6.2 培训方式

卖方应按照买方要求，安排具备充分资格的人员为业主人员进行培训。培训应采用塞尔维亚语（经业主、承包商书面同意可采用英语或其他语种）进行。

6.6.2.1 培训方式为塞尔维亚现场培训。

6.6.2.2 操作和维护人员的现场培训应在系统调试之前进行，培训应在诸如调度所、通信站对运营人员的操作进行培训，应包括正常操作程序和怎样处理紧急情况。

6.6.3 培训内容

6.6.3.1 系统

（1）根据培训手册建立对有关设备的总体概念；

（2）了解、掌握系统的基本概念、组成、原理、特性、功能；

（3）了解、掌握系统工作电源的配置、防雷、接地；

（4）了解、掌握与其它相关系统的接口；

（5）了解、掌握系统网络管理措施。

6.6.3.2 硬件

（1）系统硬件框架、组成、名称；

（2）各硬件单元的面板显示说明及意义；

（3）各硬件单元的连接配线；

（4）系统及各硬件单元的供电；

（5）系统各硬件单元的功能原理图、输入输出信号及相关技术参数；

（6）与其它相关系统的物理和逻辑接口连接；硬件（通用设备）更新时，软件的设置和重装。

6.6.3.3 软件

（1）功能描述；

（2）软件各功能模块之间的联系；

（3）系统信息处理系统框图（包含与其它子系统的接口信息的采集、传递）；

（4）系统及各硬件单元的自检周期、自检时间及自检内容、自检过程；

（5）故障报警信息的详细说明，包括具体的含义，可能的故障源以及相应的修复措施；

（6）软件备份、升级；

（7）详细描述操作工作站内的软件模块及文件结构；

（8）按照功能，详细描述各硬件单元在该项功能实现中所起的作用。

6.6.3.4 维护

（1）各部件维护标准、技术参数；

（2）维护基本操作及相关注意事项；

（3）提供标准的系统维护工具；

（4）提供可供参考的维护模式及维护周期；

（5）各单元模块的更换。

（6）在正常及紧急供电条件下对维护和运行程序的安全要求；

（7）在维护期间采用的专用装置，工具和设备的使用。

6.6.3.5 网络管理

（1）各类故障识别、分析及排除；

（2）网络管理的使用及维护。

6.6.3.6 操作使用

（1）各类操作维护终端的原理及操作使用方法；

（2）各类监控终端的原理及操作使用方法。

6.6.4 培训、教材及器材

6.6.4.1 卖方应提供培训的详细计划及教材，培训计划包括以下部分：

（1）卖方应具备培训能力，包括但不限于培训人员的资格和经验；

（2）课程的细节，包括持续时间，受训人员最多人数，受训人与培训人员的比率，要求的或可利用的设施以及参加课程培训的前提条件；

（3）建议的额外培训或选择性方案措施，以便可以达到买方的培训目标。

培训计划中应含有所有必需的书面文件。文件应采用塞尔维亚语和英语编制。

6.6.4.2 技术培训每天完成的主要工作、工作进度、发生的问题或事故以及解决方法应以工作日志的形式进行记录，并由买卖双方签字，工作日志一式两份，双方各执一份。

6.6.4.3 卖方应将培训计划交给买方确认，培训计划的实施时间框架应能保证受训人员在合同设备的送电运行日期之前能受到完整而全面的培训。

6.6.4.4 卖方应将完整培训资料提供给受训人员。

7. 质量保证期

7.1 合同设备质量保证期从合同物资交货验收之日起算，至项目交付之日起5年终止。如设计文件及技术规格书中要求长于该时间，则按设计文件及技术规格书要求执行。本合同质量保证期服务还需包含匈牙利-塞尔维亚铁路塞尔维亚境内诺维萨德至苏博蒂察区段工程GSM-R无线通信系统采购合同中的相关设备。

7.2 鉴于匈牙利-塞尔维亚铁路塞尔维亚境内诺维萨德-苏博蒂察区段工程GSM-R无线通信系统采购合同中的相关设备已包含了本项目质量保证期内所需的相关备品备件（GSM-R无线基站及天馈系统），因此本合同中GSM-R无线系统的质量保证期内，除必要的技术支持外，不再额外单独提供备品备件及坏件修复服务.

7.3 质量保证期内，如因卖方质量问题导致合同设备修复，修复后合同设备的质量保证期按照合同设备不能正常运用的时间相应地予以延长。如因卖方质量问题导致合同设备更换，更换后设备的质量保证期应从更换后重新计算。

8. 质保期服务

8.1 质量保证服务

8.1.1 在质量保证期内，卖方应按通用合同条款、专用合同条款的技术服务、业主要求及供货要求的规定提供质量保证服务，并详细列出质量保证服务项目、买方不为此另行支付费用。在质量保证期外但在寿命期内提供的服务，服务内容及费用由买卖双方商定，另行签订补充协议。

8.1.2 在质量保证期内，卖方提供的质量保证服务，除在供货要求中另行约定外，GSM-R无线系统、传输系统、数据通信系统：应在收到买方通知后24小时内做出响应，如需卖方到合同设备现场，卖方应在收到买方通知后48小时内到达；其他系统：应在收到买方通知后24小时内做出响应，经鉴定需要修复的备件寄回返修。

8.1.3 在质量保证期内，因卖方责任造成合同设备质量问题，如卖方不能在双方商定的合理期限内解决，或卖方在收到买方通知后 30 日内仍未采取相应的解决措施，则买方可在通知卖方后自行解决，其费用和风险由卖方承担，但不影响合同规定的卖方责任；经卖方认可，买方可对细小缺陷进行修理或调整，但由此产生的全部费用由卖方承担。卖方在接到买方通知后3日内未予答复的，视为卖方认可；

8.1.4 在质量保证期内，因卖方责任造成合同设备质量问题，卖方修复质量问题设备或用符合合同规定的新设备更换，修复和更换所引发的一切费用和风险由卖方承担。

8.1.5 在质量保证期内，对于修复、更换仍不能达到合同规定标准的设备，买方予以退货，卖方应将货款退还给买方，由此所引发的一切费用和风险由卖方承担。

8.1.6 卖方应建立产品召回制度，实施产品召回并进行修复、更换。对卖方自行发现或收到买方反馈，由于设计、制造、标识等原因，导致所交付的同一批次、型号或类别产品（含买方库存及在用产品）出现质量问题，须主动实施召回并进行修复、更换，并承担由此引发的一切费用和风险。

8.1.7 在质量保证期内，卖方应对其提供的合同设备执行以下规定：

（1）参与买方进行的网络故障分析和定位；

（2）保证故障清查和排除；

（3）保证更换出现异常而不符合本技术要求或设计文件要求的部件；

（4）如果发现的异常问题反复出现或其后果对安全有影响，则应要求进行调查研究。研究的结果可以导致小或大的整改以使其符合要求；

（5）记录故障、部件更换情况及整改措施情况，以便随时了解系统的状态。

8.1.8 在质量保证期内，卖方的义务包括对有缺陷零部件进行调查研究、拆卸、更换和重新安装。

8.1.9 对合同设备施工工艺有要求时，卖方应在安装作业指导书中注明。未注明的，视为认同施工单位的施工工艺。

8.1.10 对合同设备维护有要求时，卖方应注明。未注明的，视为认同运营维护单位的维护方案。

9. 保证

9.1 卖方保证其对合同设备的销售不损害任何第三方的合法权益和社会公众利益。任何第三方不会因卖方原因而基于所有权、抵押权、留置权或其他任何权利或事由对合同设备主张权利。如买方因使用合同设备受到第三方的诉讼，卖方应在买方的协助下自费处理与第三方的诉讼并赔偿买方由此遭受的任何费用和损失。

9.2 由于工艺或材料的问题而导致合同设备的任何缺陷，卖方对此负责。

9.3 卖方保证对由于生产制造及未交付买方前的原因造成合同设备的任何缺陷负责，卖方收到买方关于合同设备缺陷书面通知时，应保证迅速进行缺陷修补、更换，买方不负责相关费用。

9.4 卖方保证，若在合同履约中发生不良行为，接受买方按照中国国家铁路集团有限公司（原中国铁路总公司）的相关规定对卖方进行信用评价。

9.5 卖方应保证合同设备在建设项目中的兼容性和适用性，当出现因设备接口或与工程现场不匹配等原因引起的设备零部件变更时，卖方应予以免费修正或更换。

9.6 卖方应保证合同设备相关许可和认证在合同期间保持有效。

10. 保密

10.1 未经买方书面同意，卖方不得将由买方或代表买方提供的有关合同或任何合同条文、技术文件、计划、图纸、模型、样品或资料提供给与履行本合同无关的任何第三方。即使向与履行本合同有关的人员提供，也应注意保密并限于履行合同必须的范围。

10.2 未经买方书面同意，除履行本合同外，卖方不应使用合同条款第 10.1 款所列举的任何文件和资料。

10.3 除合同本身外，合同条款第 10.1 款所列举的任何文件均为买方财产。若买方要求，卖方应在完成合同后，将上述文件及全部复印件返还买方，无法返还的应予以销毁或删除。

11. 违约责任

11.1 在合同有效期内，若卖方执行合同遇到无法按时交货和提供服务的情况，应及时以书面形式将拖延的事实、可能拖延的时间和原因通知买方。买方在收到卖方通知后，应尽快对情况进行评估。

11.2 如果卖方没有按照合同约定的时间交货和提供服务，在不影响买方行使合同项下的其他补救措施的情况下，买方有权从应付货款中扣除误期赔偿费。每延误一周的赔偿费按迟交合同设备货款或未提供服务的服务费用的百分之二（2%）计扣，直至交货或提供服务为止。误期赔偿费的最高限额为合同总价的百分之十（10%）。一旦达到误期赔偿费的最高限额，买方可考虑根据合同条款第 11 条的约定终止合同。

11.3 买方应按合同约定支付合同价款，但未能及时支付合同价款的，应与卖方协商并达成一致意见。

11.4 只要买方的索赔通知是在质量保证期满后第 30 日以前提出的，索赔便应被认为是有效的，但并不排除买方在质量保证期满 30 日后依据法律规定主张权益。

11.5 若卖方在收到买方索赔通知后 20 日内未予回复，该索赔要求应视为被卖方接受。

11.6 若卖方未能按通用合同条款 11.1 条、专用合同条款第 11.1 款规定在约定时间内消除质量缺陷，买方可自行采取措施消除该质量缺陷，由此而产生的一切费用由卖方承担。

11.7 由于卖方供应的合同设备出现质量问题，造成买方或任何第三人财产、人身的任何损失，责任应由卖方承担，且买方有权按照相关法律法规向卖方主张其他赔偿责任。

11.8 除欺诈、故意或重大过失外，合同任何一方均不得要求另外一方承担因违约产生的任何间接损失，包括但不限于利润损失、名誉损失等。

12. 合同的解除

在买方对卖方下列任一违约而采取的任何补救措施不受影响的情况下，经双方友好协商后，买方可向卖方发出书面违约通知书，提出终止部分或全部合同：

（1）卖方迟延交付合同设备超过 2 个月；

（2）如果卖方所提供合同设备存在质量问题且未在与买方约定的时间内进行修复、更换，或多次修复、更换后仍无法满足质量要求的，并经原厂书面确认的；

（3）如果卖方所提供合同设备被设备使用地相关部门、中国行政监督部门或中国国家铁路集团有限公司（原中国铁路总公司）禁止使用或强制召回，但不可抗力除外；

（4）如果买方有充分依据并根据生效法院判决证明卖方在本合同的竞争和实施过程中有腐败和欺诈行为即属于下述定义条件：

1）“腐败行为”是指提供、给予、接受或索取任何有价值的物品来影响买方在合同实施过程中的行

为：

2）“欺诈行为”是指为了影响采购过程或合同实施过程而弄虚作假、谎报或隐瞒事实，损害买方利益的行为。

13. 不可抗力

13.1 如果任何一方当事人受到不能预见、不能避免且不能克服的不可抗力事件的影响，例如战争、严重的火灾、台风、地震、洪水（新冠疫情除外），而无法履行合同项下的任何义务，则受影响的一方当事人应立即将此类事件的发生通知另一方当事人，并应在不可抗力事件发生后 28 日内将有关当局或机构出具的证明文件提交给另一方当事人。

13.2 受不可抗力事件影响的一方当事人对于不可抗力事件导致的任何合同义务的迟延履行或不能履行不承担违约责任。但该方当事人应尽快将不可抗力事件结束或消除的情况通知另一方当事人。

13.3 双方当事人应在不可抗力事件结束或其影响消除后立即继续履行其合同义务，合同期限也应相应顺延。除专用合同条款另有约定外，如果不可抗力事件的影响持续超过 140 日，则任何一方当事人均有权以书面通知解除合同。

14. 争议的解决

14.1 本合同适用法律为中华人民共和国法律。凡因本合同引起的或与本合同有关的争议，由买卖双方以友好协商的方式解决。双方不能协商一致的，任何一方可选择第（1）种方式解决争议：

（1）由北京仲裁委员会根据其现行有效的仲裁程序和规则进行仲裁，仲裁裁决是终局的，对双方均有约束力。

（2）向起诉方所在地有管辖权的人民法院提起诉讼。败诉方除应承担诉讼费外，还应承担另一方为实现债权而产生的律师费、公证费、交通费、住宿费等一切费用。

14.2 在合同争议解决期间，买卖双方应继续履行未涉及争议的合同部分。

15. 标准和适用性

15.1 本合同下交付的服务应符合供货要求所述的标准。如果没有提及适用标准，应符合塞尔维亚规划和建设法律、铁路安全及互通性法律、塞尔维亚共和国的其他相关法律。TSI 明确规定的部分结构子系统强制性要求应满足，其他工程应根据塞尔维亚法律法规及标准规范。

15.2 除非供货要求中另有规定，计量单位均采用中华人民共和国法定计量单位。

16. 备品备件

16.1 备品备件

16.1.1 卖方应向买方提供在质量保证期结束前，供货要求附件 2 全部物资设备明细表中设备正常运行及维修需求的备品备件名称、规格型号、数量等内容。

16.1.2 在质量保证期满、合同设备设计使用寿命期内，买方从卖方采购备品备件，卖方应以不高于同期市场价格或其向任何第三方销售同类产品的价格提供买方所需备品备件。

16.1.3 在合同设备设计使用寿命期内发生合同项下备品备件停止生产的情况，卖方应根据备品备件的生产周期提前将拟停止生产计划以书面或电子邮件方式通知买方，以便买方有足够的时间考虑备品备件的需求量。

16.1.4 卖方提供的备品备件，应与其它的合同设备一同制造、供货。

16.1.5 卖方提供备品备件不能免除其因合同设备自身质量问题须承担的相应责任。

16.1.6 质保期内的备品备件由卖方免费提供。

17. 技术资料

17.1 基本要求

17.1.1 卖方应根据合同规定向买方提供技术文件、手册和图纸。如果履行本合同必需但合同又未作规定的，只有卖方才能提供的技术文件，卖方应在收到买方书面通知并确认能提供后 7 日内向买方免费提供。

17.1.2 卖方提供的技术文件应编辑正确，组织合理，内容充实，容易理解，详尽描述合同设备的性能、原理、结构和尺寸，并包括部件的型号、规格、技术数据，保证买方能够正确进行合同设备安装、操作、检查、维修、维护、测试、调试和使用。

17.1.3 卖方提供的关键技术文件、手册和图纸一律使用标准简体中文，英文、塞文，当不同版本之间出现异议时，以英文版本为准。并采用经买方确认的统一的编码结构。对于文件原始文本为英文的，以及国外分包商在国外生产的产品应同时提供文件的英文版本。文件、图纸、产品铭牌应字迹清楚、内容完整，采用 SI（国际单位制）单位、通用图形和符号。其图幅应符合 ISO 标准公制“A”系列。

17.1.4 技术文件均应提交买方及承包商确认。买方对技术文件的确认不减轻和免除卖方的合同责任。

17.1.5 卖方应承担买方按照技术文件的指导进行的任何安装、操作、检查维修、维护、测试、调整和使用致使系统和/或设备和/或其部件损坏所引起的赔偿责任。

17.1.6 本合同已明确约定的技术文件的费用已包含在合同价中。

17.1.7 出于设备维护和管理的目的，买方有权复制卖方提供的文件资料。

17.2 技术文件

17.2.1 卖方应提供的技术文件包括以下内容。

17.2.1.1 合同生效后，卖方应提供的技术文件包括：

（1）系统概述；

（2）技术手册（外观尺寸、功能、性能、主要技术参数及其它技术规格等）；

（3）安装使用手册；

（4）操作手册和使用说明书；

（5）维护手册；

（6）故障诊断手册；

（7）图纸（外观图、原理图、电路图、组装图、建议安装图等）；

（8）监控接口及通信协议。

17.2.1.2 合同设备到货时，卖方应提供的技术文件包括：

（1）每件产品的合格证

（2）装箱清单；

（3）合同设备配置清单；

（4）合同设备的零部件和材料手册

（5）主要材料的原产厂家清单；

（6）维修用专用工具，试验设备，仪器仪表的使用说明书；

（7）工厂测试及现场测试方法、步骤及测试表格；

（8）合同设备、系统或部件的试验规则、检验条件和试验大纲（试验手册）；

（9）合同设备及部件设计、制造涉及到的标准清单。

17.2.1.3 合同设备验收前，卖方应提供的技术文件包括：

（1）产品合格证；

（2）系统概述；

（3）技术手册（外观尺寸、功能、性能、主要技术参数及其它技术规格等）；

（4）安装使用手册；

（5）操作手册和使用说明书；

（6）维护手册；

（7）故障诊断手册；

（8）图纸（原理图、电路图、组装图、安装图、机架面板图、系统图、网管截图等）；

（9）各项调试试验测试结果记录及统计表；

（10）业务端口配置表、时隙分配表

（11）备品备件清单；

（12）子系统测试记录；

（13）设备缺陷处理记录；

（14）故障考核记录；

（15）设备、材料更换记录表，剩余设备、材料点验清单记录表。

17.2.2 卖方为代理商时，除需满足第 17.2.1 项要求外，还应在合同设备到货时提供必要的合法性证明材料，包括但不限于生产企业出具的授权文件、代理商与生产商的购销合同、生产商供货或发货凭据等。

17.2.3 卖方供货产品为进口产品的，除需满足第 17.2.1 项和第 17.2.2 项要求外，还应在合同设备到货时提供海关报关单、原产地证明、商检、装箱单等进口必要资料。

17.2.4 卖方应按照买方要求提供第 17.2.1 项中技术文件的电子文件。

17.3 试验报告

（1）型式试验报告；

（2）例行试验报告

（3）出厂试验报告。

17.4 说明书

17.4.1 说明书应包括但不限于下列各项：型号、结构尺寸、技术参数、适用范围、适用环境、安装、维护、运输、保管及其他需注意的事项等。

18. 其他

18.1 买卖双方通过代表联络合同执行有关事宜，一切往来函电均应为书面形式。

（三）通用合同条款

1. 一般约定

1.1 词语定义

除专用合同条款另有约定外，合同中的下列词语应具有本款所赋予的含义。

1.1.1 合同

1.1.1.1 合同文件（或称合同）：指合同协议书、专用合同条款、通用合同条款、供货要求、技术规格书、施工图设计文件、分项报价表以及其他构成合同组成部分的文件。

1.1.1.2 合同协议书：指买方和卖方共同签署的合同协议书。

1.1.1.3 中标通知书：指买方通知卖方中标的函件。

1.1.1.4 投标函：指由卖方填写并签署的，名为“投标函”的函件。

1.1.1.5 商务和技术偏差表：指卖方投标文件中的商务和技术偏差表。

1.1.1.6 供货要求：指合同文件中名为“供货要求”的文件。

1.1.1.7 合同设备技术性能指标的详细描述：指卖方的设备技术性能指标的详细描述。

1.1.1.8 技术服务和质保期服务计划：指卖方提供的技术服务和质保期服务计划。

1.1.1.9 分项报价表：指卖方投标文件中的分项报价表。

1.1.1.10 其他合同文件：指经合同双方当事人确认构成合同文件的其他文件。

1.1.2 合同当事人

1.1.2.1 合同当事人：指买方和（或）卖方。

1.1.2.2 买方：指与卖方签订合同协议书，购买合同设备和技术服务和质保期服务的当事人，及其合法继承人。

1.1.2.3 卖方：指与买方签订合同协议书，提供合同设备和技术服务和质保期服务的当事人，及其合法继承人。

1.1.3 合同价格

1.1.3.1 签约合同价：是签订合同时合同协议书中写明的合同总金额。

1.1.3.2 合同价格：指按合同约定买方应付给卖方的金额。

1.1.4 合同设备：指卖方按合同约定应向买方提供的设备、装置、备品、备件、易损易耗件、配套使用的软件或其他辅助电子应用程序及技术资料，或其中任何一部分。

1.1.5 技术资料：指各种纸质及电子载体的与合同设备的设计、检验、安装、调试、考核、操作、维修以及保养等有关的技术指标、规格、图纸和说明文件。

1.1.6 安装：指对合同设备进行的组装、连接以及根据需要将合同设备固定在施工场地内一定的位置上，使其就位并与相关设备、工程实现连接。

1.1.7 调试：指在合同设备安装完成后，对合同设备所进行的调校和测试。

1.1.8 考核：指在合同设备调试完成后，对合同设备进行的用于确定其是否达到合同约定的技术性能考核指标的考核。

1.1.9 验收：指合同设备通过考核达到合同约定的技术性能考核指标后，买方作出接受对合同设备的做出的确认。

1.1.10 技术服务：指卖方按合同约定，在合同设备验收前，向买方提供的安装、调试服务，或者在由买方负责的安装、调试、考核中对买方进行的技术指导、协助、监督和培训等。

1.1.11 质量保证期：指合同设备验收后，卖方按合同约定保证合同设备适当、稳定运行，并负责消除合同设备故障的期限。

1.1.12 质保期服务：指在质量保证期内，卖方向买方提供的合同设备维护服务、咨询服务、技术指导、协助以及对出现故障的合同设备进行修理或更换的服务。

1.1.13 工程

1.1.13.1 工程：指在专用合同条款中指明的，安装运行合同设备的工程。

1.1.13.2 施工场地（或称工地、施工现场）：指专用合同条款中指明的工程所在场所，包括买方仓库。

1.1.14 天（或称日）：除特别指明外，指日历天。合同中按天计算时间的，开始当天不计入，从次日开始计算。合同约定的期间的最后一天是星期日或者其他法定休假日的，以休假日的次日为期间的最后一天。

1.1.15 月：按照公历月计算。合同中按月计算时间的，开始当天不计入，从次日开始计算。合同约定的期间的最后一天是星期日或者其他法定休假日的，以休假日的次日为期间的最后一天。

1.1.16 书面形式：指合同文件、信件和数据电文（包括电报、电传、传真、电子数据交换和电子邮件）等可以有形地表现所载内容的形式。

1.2 语言文字

合同使用的语言文字为中英文，专用术语使用外文的，应附有中文注释。

1.3 合同文件的优先顺序

组成合同的各项文件应互相解释，互为说明。除专用合同条款另有约定外，解释合同文件的优先顺序如

下：

（1）合同协议书；

（2）专用合同条款；

（3）通用合同条款；

（4）供货要求；

（5）分项报价表；

（6）技术规格书；

（7）技术服务和质保期服务计划

1.4 合同的生效及变更

1.4.1 除专用合同条款另有约定外，买方和卖方的法定代表人（单位负责人）或其授权代表在合同协议书上签字并加盖单位章后，合同生效。

1.4.2 除专用合同条款另有约定外，在合同履行过程中，如需对合同进行变更，双方应签订书面协议，并经双方法定代表人（单位负责人）或其授权代表签字并加盖单位章后生效。

1.5 联络

1.5.1 买卖双方应就合同履行中有关的事项及时进行联络，重要事项应通过书面形式进行联络或确认。合同履行过程中的任何联络及相关文件的签署，均应通过专用合同条款指定的联系人和联系方式进行。合同履行过程中，双方可以书面形式增加或变更指定联系人。

1.5.2 合同履行中或与合同有关的任何联络，送达到第1.5.1项指定的联系人即视为送达。

1.5.3 买方可以安排监理等相关人员作为买方人员，与卖方进行联络或参加合同设备的监造（如有）、交货前检验（如有）、开箱检验、安装、调试、考核、验收等，但应按照第1.5.1项的约定事先书面通知卖方。

1.6 联合体（不适用）

1.6.1 卖方为联合体的，联合体各方应当共同与买方签订合同，并向买方为履行合同承担连带责任。

1.6.2 在合同履行过程中，未经买方同意，不得修改联合体协议。联合体协议中关于联合体成员间权利义务的划分，并不影响或减损联合体各方应就履行合同向买方承担的连带责任。

1.6.3 联合体牵头人代表联合体与买方联系，并接受指示，负责组织联合体各成员全面履行合同。除非专用合同条款另有约定，牵头人在履行合同中的所有行为均视为已获得联合体各方的授权。买方可将合同价款全部支付给牵头人并视为其已适当履行了付款义务。如牵头人的行为将构成对合同内容的变更，则牵头人须事先获得联合体各方的特别授权。

1.7 转让

未经对方当事人书面同意，合同任何一方均不得转让其在合同项下的权利和（或）义务。

2. 合同范围

卖方应根据供货要求、中标设备技术性能指标的详细描述、技术服务和质保期服务计划等合同文件的

约定向买方提供合同设备、技术服务和质保期服务。

3. 合同价格与支付

3.1 合同价格

3.1.1 合同协议书中载明的签约合同价包括卖方为完成合同全部义务应承担的一切成本、费用和支出以及卖方的合理利润。

3.1.2 除专用合同条款另有约定外，签约合同价为固定价格。

3.2 合同价款的支付（不适用，以专用条款为准）

除专用合同条款另有约定外，买方应按照背靠背方式分别支付：买方按照与承包商签订的合同背靠背向卖方支付货款，支付时间为业主支付到买方美元账户后，买方兑换成人民币后的三个工作日内。每次付款需满足以下条件：

3.2.1 预付款

合同生效后，买方在收到卖方开具的注明应付预付款金额的财务收据正本一份并经审核无误后 28 日内，向卖方支付签约合同价的 10%作为预付款。

买方支付预付款后，如卖方未履行合同义务，则买方有权收回预付款；如卖方依约履行了合同义务，则预付款抵作合同价款。

3.2.2 交货款

卖方按合同约定交付全部合同设备后，买方在收到卖方提交的下列全部单据并经审核无误后 28 日内，向卖方支付合同价格的 60%：

（1）卖方出具的交货清单正本一份；

（2）买方签署的收货清单正本一份；

（3）制造商出具的出厂质量合格证正本一份；

（4）合同价格 100%金额的增值税发票正本一份。

3.2.3 验收款

买方在收到卖方提交的买卖双方签署的合同设备验收证书或已生效的验收款支付函正本一份并经审核无误后 28 日内，向卖方支付合同价格的 25%。

3.2.4 结清款

买方在收到卖方提交的买方签署的质量保证期届满证书或已生效的结清款支付函正本一份并经审核无误后 28 日内，向卖方支付合同价格的 5%。

如果依照合同第 9.1 项，卖方应向买方支付费用的，买方有权从结清款中直接扣除该笔费用。

除专用合同条款另有约定外，在买方向卖方支付验收款的同时或其后的任何时间内，卖方可在向买方提交买方可接受的金额为合同价格 5%的合同结清款保函的前提下，要求买方支付合同结清款，买方不得拒绝。

3.3 买方扣款的权利（不适用，以专用条款为准）

当卖方应向买方支付合同项下的违约金或赔偿金时，买方有权在买卖双方书面协商一致的前提下，从上述任何一笔应付款中予以直接扣除和（或）兑付履约保证金。

4. 监造及交货前检验

4.1 监造（本条不适用）

专用合同条款约定买方对合同设备进行监造的，双方应按本款及专用合同条款约定履行。

4.1.1 在合同设备的制造过程中，买方可派出监造人员，对合同设备的生产制造进行监造，监督合同设备制造、检验等情况。监造的范围、方式等应符合专用合同条款和（或）供货要求等合同文件的约定。

4.1.2 除专用合同条款和（或）供货要求等合同文件另有约定外，买方监造人员可到合同设备及其关键部件的生产制造现场进行监造，卖方应予配合。卖方应免费为买方监造人员提供工作条件及便利，包括但不限于必要的办公场所、技术资料、检测工具及出入许可等。除专用合同条款另有约定外，买方监造人员的交通、食宿费用由买方承担。

4.1.3 卖方制订生产制造合同设备的进度计划时，应将买方监造纳入计划安排，并提前通知买方；买方进行监造不应影响合同设备的正常生产。除专用合同条款和（或）供货要求等合同文件另有约定外，卖方应提前 7 日将需要买方监造人员现场监造事项通知买方；如买方监造人员未按通知出席，不影响合同设备及其关键部件的制造或检验，但买方监造人员有权事后了解、查阅、复制相关制造或检验记录。

4.1.4 买方监造人员在监造中如发现合同设备及其关键部件不符合合同约定的标准，则有权提出意见和建议。卖方应采取必要措施消除合同设备的不符，由此增加的费用和（或）造成的延误由卖方负责。

4.1.5 买方监造人员对合同设备的监造，不视为对合同设备质量的确认，不影响卖方交货后买方依照合同约定对合同设备提出质量异议和（或）换货的权利，也不免除卖方依照合同约定对合同设备所应承担的任何义务或责任。

4.1.6 如买方要求实施驻场监造，则由买方提前 5 个工作日书面通知卖方，由卖方组织执行。

4.2 交货前检验

专用合同条款约定买方参与交货前检验的，双方应按本款及专用合同条款约定履行。

4.2.1 合同设备交货前，卖方应会同买方代表根据合同约定对合同设备进行交货前检验并出具交货前检验记录，有关费用由卖方承担。卖方应免费为买方代表提供工作条件及便利，包括但不限于必要的办公场所、技术资料、检测工具及出入许可等。除专用合同条款另有约定外，买方代表的交通、食宿费用由买方承担。

4.2.2 除专用合同条款和（或）供货要求等合同文件另有约定外，卖方应提前 7 日将需要买方代表检验事项通知买方；如买方代表未按通知出席，不影响合同设备的检验。若卖方未依照合同约定提前通知买方而自行检验，则买方有权要求卖方暂停发货并重新进行检验，由此增加的费用和（或）造成的延误由卖方负责。

4.2.3 买方代表在检验中如发现合同设备不符合合同约定的标准，则有权提出异议。卖方应采取必要措施消除合同设备的不符，由此增加的费用和（或）造成的延误由卖方负责。

4.2.4 买方代表参与交货前检验及签署交货前检验记录的行为，不视为对合同设备质量的确认，不影响卖方交货后买方依照合同约定对合同设备提出质量异议和（或）换货的权利，也不免除卖方依照合同约定对合同设备所应承担的任何义务或责任。

5. 包装、标记、运输和交付

5.1 包装

5.1.1 卖方应对合同设备进行妥善包装，以满足合同设备运至施工场地及在施工场地保管的需要。包装应采取防潮、防晒、防锈、防腐蚀、防震动及防止其他损坏的必要保护措施，从而保护合同设备能够经受多次搬运、装卸、长途运输并适宜保管。

5.1.2 每个独立包装箱内应附装箱清单、质量合格证、装配图、说明书、操作指南等资料。

5.1.3 除专用合同条款另有约定外，买方无需将包装物退还给卖方。

5.2 标记

5.2.1 除专用合同条款另有约定外，卖方应在每一包装箱相邻的四个侧面以不可擦除的、明显的方式标记必要的装运信息和标记，以满足合同设备运输和保管的需要。

5.2.2 根据合同设备的特点和运输、保管的不同要求，卖方应在包装箱上清楚地标注“小心轻放”“此端朝上，请勿倒置”“保持干燥”等字样和其他适当标记。对于专用合同条款约定的超大超重件，卖方应在包装箱两侧标注“重心”和“起吊点”以便装卸和搬运。如果发运合同设备中含有易燃易爆物品、腐蚀物品、放射性物质等危险品，则应在包装箱上标明危险品标志。

5.3 运输

5.3.1 卖方应自行选择适宜的运输工具及线路安排合同设备运输。

5.3.2 除专用合同条款另有约定外，每件能够独立运行的设备应整套装运。该设备安装、调试、考核和运行所使用的备品、备件、易损易耗件等应随相关的主机一齐装运。

5.3.3 除专用合同条款另有约定外，卖方应在合同设备预计启运 7 日前，将合同设备名称、数量、箱数、总毛重、总体积（用 m3 表示）、每箱尺寸（长×宽×高）、装运合同设备总金额、运输方式、预计交付日期和合同设备在运输、装卸、保管中的注意事项等预通知买方，并在合同设备启运后 24 小时之内正式通知买方。

5.3.4 卖方在根据第 5.3.3 项进行通知时，如果发运合同设备中包括专用合同条款约定的超大超重包装，则卖方应将超大和（或）超重的每个包装箱的重量和尺寸通知买方；如果发运合同设备中包括易燃易爆物品、腐蚀物品、放射性物质等危险品，则危险品的品名、性质、在运输、装卸、保管方面的特殊要求、注意事项和处理意外情况的方法等，也应一并通知买方。

5.4 交付

5.4.1 除专用合同条款另有约定外，卖方应根据合同约定的交付时间和批次在买方指定地点将合同设

备交付给买方。买方对卖方交付的包装的合同设备的外观及件数进行清点核验后应签发收货清单，并自负风险和费用进行卸货。

5.4.2 合同设备的所有权及控制权和风险自交付时起由卖方转移至买方，合同设备交付给买方之前包括运输在内的所有风险均由卖方承担。设备的交付时点以买方签收物流单据为准。

5.4.3 除专用合同条款另有约定外，买方如果发现技术资料存在短缺和（或）损坏，卖方应在收到买方的通知后 7 日内免费补齐短缺和（或）损坏的部分。如果买方发现卖方提供的技术资料有误，卖方应在收到买方通知后 7 日内免费替换。如由于买方原因导致技术资料丢失和（或）损坏，卖方应在收到买方的通知后 7 日内补齐丢失和（或）损坏的部分，但买方应向卖方支付合理的复制、邮寄费用。

6. 开箱检验、调试、考核、验收（本条不适用，以专用条款为准）

6.1 开箱检验

6.1.1 合同设备的开箱检验程序如下：

（1）到货检查

（2）开箱检验

6.1.2 到货检查（买方仓库）

6.1.2.1 合同设备及技术文件由卖方负责运抵买方仓库后，买卖双方共同按如下要求对其进行检查：

（1）专用合同条款 21“技术资料”中要求应提交的技术文件资料齐全；

（2）满足通用合同条款及供货要求中对“包装、标记”的要求；

（3）外观良好；

（4）编号、数量和名称与卖方装运前通知买方的货物清单核实无误。

6.1.2.2 到货检查前，若因卖方原因发生合同设备短缺、损坏或其他与合同约定不符的情形而导致合同规定的工期延误，则买方有权就因此造成的损失向卖方索赔。

6.1.2.3 到货检查后，买卖双方应做好到货检查记录，并由双方授权代表签字。

6.1.3 开箱检验（施工现场）

6.1.3.1 买方将货物运抵施工现场后应进行开箱检验。开箱检验在合同设备到货检查后一定期限内进行，买方应按通用合同条款 6.1.1 要求通知卖方。

6.1.3.3 开箱检验内容包括：

（1）检查密封包装物的完好性；

（2）检查、核对装箱货物数量、型号与发货清单是否一致；

（3）检查装箱货物编号、数量和名称与合同要求的货物清单是否一致；

（4）检验序列号是否满足专用合同条款 9.1.7、9.1.8 要求；

（5）现场人员根据供货要求能检验的其他内容。

6.1.3.4 开箱检验发现的相关问题，由卖方进行补换货处理。补换货的设备须满足相关合同约定要求。

6.2 调试

6.2.1 开箱检验完成后，双方应对合同设备进行调试，以使其具备考核的状态。调试应按照专用合同条款约定的下列任一种方式进行：

（1）卖方按照合同约定完成合同设备的调试工作；

（2）买方或买方安排第三方负责合同设备的调试工作，卖方提供技术服务。

除专用合同条款另有约定外，在调试过程中，如由于买方或买方安排的第三方未按照卖方现场服务人员的指导导致调试不成功和（或）出现合同设备损坏，买方应自行承担责任。如在买方或买方安排的第三方按照卖方现场服务人员的指导进行安装、调试的情况下出现调试不成功和（或）造成合同设备损坏的情况，卖方应承担责任。

6.2.2 除专用合同条款另有约定外，调试中合同设备运行需要的用水、用电、其他动力和原材料（如需要）等均由买方承担。

6.2.3 双方应对合同设备的调试情况共同及时进行记录。

6.3 考核

6.3.1 安装、调试完成后，双方应对合同设备进行考核，以确定合同设备是否达到合同约定的技术性能考核指标。除专用合同条款另有约定外，考核中合同设备运行需要的用水、用电、其他动力和原材料（如需要）等均由买方承担。

6.3.2 如由于卖方原因合同设备在考核中未能达到合同约定的技术性能考核指标，则卖方应在双方同意的期限内采取措施消除合同设备中存在的缺陷，并在缺陷消除以后，尽快进行再次考核。

6.3.3 由于卖方原因未能达到技术性能考核指标时，为卖方进行考核的机会不超过三次。如果由于卖方原因，三次考核均未能达到合同约定的技术性能考核指标，则买卖双方应就合同的后续履行进行协商，协商不成的，买方有权解除合同。但如合同中约定了或双方在考核中另行达成了合同设备的最低技术性能考核指标，且合同设备达到了最低技术性能考核指标的，视为合同设备已达到技术性能考核指标，买方无权解除合同，且应接受合同设备，但卖方应按专用合同条款的约定进行减价或向买方支付补偿金。

6.3.4 如由于买方原因合同设备在考核中未能达到合同约定的技术性能考核指标，则卖方应协助买方安排再次考核。由于买方原因未能达到技术性能考核指标时，为买方进行考核的机会不超过三次。如因买方原因，三次考核均未能达到合同约定的技术性能考核指标，买方应向卖方提供相应服务投入的补偿，具体以双方协商为准。

6.3.5 考核期间，双方应及时共同记录合同设备的用水、用电、其他动力和原材料（如有）的使用及设备考核情况。对于未达到技术性能考核指标的，应如实记录设备表现、可能原因及处理情况等。

6.4 验收

6.4.1 如合同设备在考核中达到或视为达到技术性能考核指标，则买卖双方应在考核完成后 7 日内或专用合同条款另行约定的时间内签署合同设备验收证书一式二份，双方各持一份。验收日期应为合同设备达到或视为达到技术性能考核指标的日期。

6.4.2 如由于买方原因合同设备在三次考核中均未能达到技术性能考核指标，买卖双方应在考核结束后 7 日内或专用合同条款另行约定的时间内签署验收款支付函。

除专用合同条款另有约定外，卖方有义务在验收款支付函签署后 12 个月内应买方要求提供相关技术服务，协助买方采取一切必要措施使合同设备达到技术性能考核指标。买方应承担卖方因此产生的全部费用。

在上述 12 个月的期限内，如合同设备经过考核达到或视为达到技术性能考核指标，则买卖双方应按照第 6.4.1 项的约定签署合同设备验收证书。

6.4.3 除专用合同条款另有约定外，如由于买方原因在最后一批合同设备交货后 6 个月内未能开始考核，则买卖双方应在上述期限届满后 7 日内或专用合同条款另行约定的时间内签署验收款支付函。

除专用合同条款另有约定外，卖方有义务在验收款支付函签署后 6 个月内应买方要求提供不超出合同范围的技术服务，协助买方采取一切必要措施使合同设备达到技术性能考核指标，且买方无需因此向卖方支付费用。

在上述 6 个月的期限内，如合同设备经过考核达到或视为达到技术性能考核指标，则买卖双方应按照第 6.4.1 项的约定签署合同设备验收证书。

6.4.4 在第 6.4.2 项和第 6.4.3 项情形下，卖方也可单方签署验收款支付函提交买方，如果买方在收到卖方签署的验收款支付函后 14 日内未向卖方提出书面异议，则验收款支付函自签署之日起生效。

6.4.5 合同设备验收证书的签署不能免除卖方在质量保证期内对合同设备应承担的保证责任。

7. 技术服务

7.1 卖方应派遣技术熟练、称职的技术人员到施工场地为买方提供技术服务。卖方的技术服务应符合合同的约定。

7.2 买方应免费为卖方技术人员提供工作条件及便利，包括但不限于必要的办公场所、技术资料及出入许可等。除专用合同条款另有约定外，卖方技术人员的交通、食宿费用由卖方承担。

7.3 卖方技术人员应遵守买方施工现场的各项规章制度和安全操作规程，并服从买方的现场管理。

7.4 如果任何技术人员不合格，买方有权要求卖方撤换，因撤换而产生的费用应由卖方承担。在不影响技术服务并且征得买方同意的条件下，卖方也可自负费用更换其技术人员。

8. 质量保证期

8.1 除专用合同条款和（或）供货要求等合同文件另有约定外，合同设备整体质量保证期为验收之日起 12 个月。如对合同设备中关键部件的质量保证期有特殊要求的，买卖双方可在专用合同条款中约定。在合同第 6.4.2 项情形下，无论合同设备何时验收，其质量保证期最长为签署验收款支付函后 12 个月。在合同第 6.4.3 项情形下，无论合同设备何时验收，其质量保证期最长为签署验收款支付函后 6 个月。

8.2 在质量保证期内如果合同设备出现故障，卖方应自负费用提供质保期服务，对相关合同设备进行修理或更换以消除故障。更换的合同设备和（或）关键部件的质量保证期应重新计算。但如果合同设备的故障是由于买方原因造成的，则对合同设备进行修理和更换的费用应由买方承担。

8.3 质量保证期届满后，买方应在 7 日内或专用合同条款另行约定的时间内向卖方出具合同设备的质量保证期届满证书。

8.4 在合同第 6.4.2 项情形下，如在验收款支付函签署后 12 个月内由于买方原因合同设备仍未能达到技术性能考核指标，则买卖双方应在该 12 个月届满后 7 日内或专用合同条款另行约定的时间内签署结清款支付函。

8.5 在合同第 6.4.3 项情形下，如在验收款支付函签署后 6 个月内由于买方原因合同设备仍未进行考核或仍未达到技术性能考核指标，则买卖双方应在该 6 个月届满后 7 日内或专用合同条款另行约定的时间内签署结清款支付函。

8.6 在第 8.4 款和第 8.5 款情形下，卖方也可单方签署结清款支付函提交买方，如果买方在收到卖方签署的结清款支付函后 14 日内未向卖方提出书面异议，则结清款支付函自签署之日起生效。

9. 质保期服务

9.1 卖方应为质保期服务配备充足的技术人员、工具和备件并保证提供的联系方式畅通。除专用合同条款和（或）供货要求等合同文件另有约定外，卖方应在收到买方通知后 24 小时内做出响应，如需卖方到合同设备现场，卖方应在收到买方通知后 48 小时内到达，并在到达后 7 日内解决合同设备的故障（重大故障除外）。如果卖方未在上述时间内作出响应，则买方有权自行或委托他人解决相关问题或查找和解决合同设备的故障，卖方应承担由此发生的全部费用。

9.2 如卖方技术人员需到合同设备现场进行质保期服务，则买方应免费为卖方技术人员提供工作条件及便利，包括但不限于必要的办公场所、技术资料及出入许可等。除专用合同条款另有约定外，卖方技术人员的交通、食宿费用由卖方承担。卖方技术人员应遵守买方施工现场的各项规章制度和安全操作规程，并服从买方的现场管理。

9.3 如果任何技术人员不合格，买方有权要求卖方撤换，因撤换而产生的费用应由卖方承担。在不影响质保期服务并且征得买方同意的条件下，卖方也可自负费用更换其技术人员。

9.4 除专用合同条款另有约定外，卖方应就在施工现场进行质保期服务的情况进行记录，记载合同设备故障发生的时间、原因及解决情况等，由买方签字确认，并在质量保证期结束后提交给买方。

10. 保证

10.1 卖方保证其具有完全的能力履行本合同项下的全部义务。

10.2 卖方保证其所提供的合同设备及对合同的履行符合所有应适用的法律、行政法规、地方性法规、自治条例和单行条例、规章及其他规范性文件的强制性规定。

10.3 卖方保证其对合同设备的销售不损害任何第三方的合法权益和社会公众利益。任何第三方不会因卖方原因而基于所有权、抵押权、留置权或其他任何权利或事由对合同设备主张权利。

10.4 卖方保证合同设备符合合同约定的规格、标准、技术性能考核指标等，能够安全和稳定地运行，且合同设备（包括全部部件）全新、完整、未使用过，除非专用合同条款和（或）供货要求等合同文件另有约定。

10.5 卖方保证，卖方所提供的技术资料完整、清晰、准确，符合合同约定并且能够满足合同设备的安装、调试、考核、操作以及维修和保养的需要。

10.6 卖方保证合同范围内提供的备品备件能够满足合同设备在质量保证期结束前正常运行及维修的需要，如在质量保证期结束前因卖方原因出现备品备件短缺影响合同设备正常运行的，卖方应免费提供。

10.7 除专用合同条款和（或）供货要求等合同文件另有约定外，如果在合同设备设计使用寿命期内发生合同项下备品备件停止生产的情况，卖方应事先将拟停止生产的计划通知买方，使买方有足够的时间考虑备品备件的需求量。根据买方要求，卖方应：

（1）以不高于同期市场价格或其向任何第三方销售同类产品的价格提供合同设备正常运行所需的全部备品备件；或

（2）免费提供可供买方或第三方制造停产备品备件所需的全部技术资料，以便买方持续获得上述备品备件以满足合同设备在寿命期内正常运行的需要。卖方保证买方或买方委托的第三方制造及买方使用这些备品备件不侵犯任何人的知识产权。

10.8 卖方保证，在合同设备设计使用寿命期内，如果卖方发现合同设备由于设计、制造、标识等原因存在足以危及人身、财产安全的缺陷，卖方将及时通知买方并及时采取修正或者补充标识、修理、更换等措施消除缺陷。

11. 知识产权

11.1 买方在履行合同过程中提供给卖方的全部图纸、文件和其他含有数据和信息的资料，其知识产权属于买方。

11.2 除专用合同条款另有约定外，买方不因签署和履行合同而享有卖方在履行合同过程中提供给买方的图纸、文件、配套软件、电子辅助程序和其他含有数据和信息的资料的知识产权。

11.3 如合同设备涉及知识产权，则卖方保证买方在使用合同设备过程中免于受到第三方提出的有关知识产权侵权的主张、索赔或诉讼的伤害。

11.4 如果买方收到任何第三方有关知识产权的主张、索赔或诉讼，卖方在收到买方通知后，应以买方名义并在买方的协助下，自负费用处理与第三方的索赔或诉讼，并赔偿买方因此发生的费用和遭受的损失。除专用合同条款另有约定外，如果卖方拒绝处理前述索赔或诉讼或在收到买方通知后 28 日内未作表示，买方可以自己的名义进行这些索赔或诉讼，因此发生的费用和遭受的损失均应由卖方承担。

12. 保密

合同双方应对因履行合同而取得的另一方当事人的信息、资料等予以保密。未经另一方当事人书面同意，任何一方均不得为与履行合同无关的目的使用或向第三方披露另一方当事人提供的信息、资料。

合同当事人的保密义务不适用于下列信息：

（1）非因接受信息一方的过失现在或以后进入公共领域的信息；

（2）接受信息一方当事人合法地从第三方获得并且据其善意了解第三方也不对此承担保密义务的信息；

（3）法律或法律的执行要求披露的信息。

13. 违约责任（不适用，以专用条款为准）

13.1 合同一方不履行合同义务、履行合同义务不符合约定或者违反合同项下所作保证的，应向对方承担继续履行、采取修理、更换、退货等补救措施或者赔偿损失等违约责任。

13.2 卖方未能按时交付合同设备（包括仅迟延交付技术资料但足以导致合同设备安装、调试、考核、验收工作推迟的）的，应向买方支付迟延交付违约金。除专用合同条款另有约定外，迟延交付违约金的计算方法如下：

（1）从迟交的第一周到第四周，每周迟延交付违约金为迟交合同设备价格的 0.5%；

（2）从迟交的第五周到第八周，每周迟延交付违约金为迟交合同设备价格的 1%；

（3）从迟交第九周起，每周迟延交付违约金为迟交合同设备价格的 1.5%。

在计算迟延交付违约金时，迟交不足一周的按一周计算。迟延交付违约金的总额不得超过合同价格的 10%。

迟延交付违约金的支付不能免除卖方继续交付相关合同设备的义务，但如迟延交付必然导致合同设备安装、调试、考核、验收工作推迟的，相关工作应相应顺延。

13.3 买方未能按合同约定支付合同价款的，应向卖方支付延迟付款违约金。除专用合同条款另有约定外，迟延付款违约金的计算方法如下：

（1）从迟付的第一周到第四周，每周迟延付款违约金为迟延付款金额的 0.5%；

（2）从迟付的第五周到第八周，每周迟延付款违约金为迟延付款金额的 1%；

（3）从迟付第九周起，每周迟延付款违约金为迟延付款金额的 1.5%。

在计算迟延付款违约金时，迟付不足一周的按一周计算。迟延付款违约金的总额不得超过合同价格的 10%。

14. 合同的解除

除专用合同条款另有约定外，有下述情形之一，经双方友好协商后，当事人可发出书面通知全部或部分地解除合同，合同自通知到达对方时全部或部分地解除：

（1）卖方迟延交付合同设备超过 2 个月；

（2）合同设备由于卖方原因三次考核均未能达到技术性能考核指标或在合同约定了或双方在考核中另行达成了最低技术性能考核指标时均未能达到最低技术性能考核指标，且经原厂书面确认确属设备问题的；

（3）买方迟延付款超过 2 个月；

（4）合同一方当事人未能履行合同项下任何其他义务（细微义务除外），或在未事先征得另一方当事人同意的情况下，从事任何可能在实质上不利影响其履行合同能力的活动，经另一方当事人书面通知后 14 日内或在专用合同条款约定的其他期限内未能对其行为作出补救；

（5）合同一方当事人出现破产、清算、资不抵债、成为失信被执行人等可能丧失履约能力的情形，

且未能提供令对方满意的履约保证金。

15. 不可抗力

15.1 如果任何一方当事人受到不能预见、不能避免且不能克服的不可抗力事件的影响，例如战争、严重的火灾、台风、地震、洪水（新冠疫情除外）和专用合同条款约定的其他情形，而无法履行合同项下的任何义务，则受影响的一方当事人应立即将此类事件的发生通知另一方当事人，并应在不可抗力事件发生后 28 日内将有关当局或机构出具的证明文件提交给另一方当事人。

15.2 受不可抗力事件影响的一方当事人对于不可抗力事件导致的任何合同义务的迟延履行或不能履行不承担违约责任。但该方当事人应尽快将不可抗力事件结束或消除的情况通知另一方当事人。

15.3 双方当事人应在不可抗力事件结束或其影响消除后立即继续履行其合同义务，合同期限也应相应顺延。除专用合同条款另有约定外，如果不可抗力事件的影响持续超过 140 日，则任何一方当事人均有权以书面通知解除合同。

16. 争议的解决

因本合同引起的或与本合同有关的任何争议,双方可通过友好协商解决。友好协商无法解决的，可在专用合同条款中约定下列一种方式解决：

（1）向约定的仲裁委员会申请仲裁；

（2）向有管辖权的人民法院提起诉讼。

（四）、供货要求

1. 本次采购供货以业主批复的最终施工图设计文件为准。

2. 本合同供货订单需求共涉及如下系统。

No.	系统名称
1	ACCESS CONTROL SYSTEM
2	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)
3	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)
4	AUTOMATIC FIRE DETECTION (AFD-FAS)
5	CLOCK SYSTEM
6	COMMON COMMUNICATION NETWORK
7	EIRENE DISPATCHING SYSTEM
8	ENTRY OF THE CABLES owned by Telekom Srbija a.d.
9	ENVIRONMENTAL MONITORING SYSTEM
10	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT
11	GSM-R SYSTEM
12	INFORMATION DISPLAY SYSTEM
13	INTEGRATION OF SECURITY SYSTEMS
14	INTRUSION DETECTION SYSTEM
15	MONITROING SYSTEM FOR Abis, A AND INTERFACE TOWARDS RBC
16	OTN
17	PUBLIC ADDRESS SYSTEM
18	SOS SYSTEM
19	TRANSMISSION SYSTEM FOR CRITICAL SERVICES
20	TWO-WAY COMMUNICATION MICROPHONE SYSTEM
21	VIDEO SURVEILLANCE SYSTEM
22	VoIP COMMUNICATION SYSTEM

3. 备注：

注 1：卖方应充分考虑到本工程与传输系统、数据网系统等互联所需的对上述系统扩容工程量，提出与本工程与上述系统互联的方案建议，为保证本工程开通所需的传输系统、数据网系统、既有调度通信系统、既有无线通信系统等扩容费用（包括技术配合费用、数据制作费用、License 及所需板件等）均包含在投标报价中，卖方不得因此延误供货。

注 2：卖方提供的设备应符合塞尔维亚相关标准、规定、规范及塞尔维亚铁路网规划等要求，无线 GSM-R 系统应实现与塞尔维亚其他铁路线以及欧州铁路线通信网的互联互通要求（TSI 认证）。卖方需完成匈塞铁路塞尔维亚段工程接入相关工程。

注:3：货物需求一览表中所列清单可作为卖方报价的基础，卖方在报价时应考虑工程实施过程中的变量因素，工程量的增加不调整合同总价。

注 4：质量保证期 5 年，质量保证期内系统所需的备品备件由卖方负责免费提供，在此期间卖方还应对由于卖方原因所导致的任何备品备件消耗负责。同时，质保期内系统所需备品备件的配置应结合质量保证期内技术服务承诺、设备配置情况、线路长度和运维组织进行计算配置，满足运营故障处理要求。

注 5：卖方按照货物需求清单中的设备及辅料供货，卖方对于招标清单要求中要求的各类电桥、合路器、功分器等应以最终版施工图进行配置，并充分考虑工程实施过程中的变量因素，满足系统开通要求。如涉及变更，以双方协商为准。

注 6：本项目应包含无线通信子系统单机调试及系统调试，进行相关系统调试，系统间接口调试。包括但不限于如下方面：
GSM-R 系统的安装调试、电磁环境测试、无线仿真、网络规划、网络优化、场强测试、配合联调联试及开通运营等工作；调度通信及无线通信系统数据编制、频率申请、清频等配合工作；协助承包商完成设置使用的无线电发射基站到当地无线电管理机构办理设台审批手续，领取电台执照。

注 7：本清单作为卖方报价的基础，具体设备及材料数量以正式批复施工图数量为准，招标人有权根据设计单位的施工图对设备数量及规格等进行相应调整，具体设备种类、数量及配置以施工图和满足工程需求为准，如构成变更，则变更部分以双方协商为准。

注 8：业务接口板卡应根据接口类型及用途配置，考虑端口预留。同类型业务板卡（含母板）应配置不少于 2 块。业务板卡所有光电接口模块均应考虑相应预留。

注 9：网管系统 License 数量应满足本工程需求，应满足系统开通后一定预留。通信各子系统网管设备采用的软件为具有完整授权的正版软件，硬件部分不仅满足本工程的需求，还应不低于设备采购时同类型号中的最新配置。网管服务器应配备双电源，网络管理软件界面为塞尔维亚文及英文。

注 10：卖方必须按照上述表格提供每种类型设备的报价，卖方需按照货物需求清单进行单价和总价的报价。

注 11：所有扩容板卡均应包含配线子架，配线子架的容量应满足扩容所有端口全部成端的要求。

注 12：卖方需配合提供满足塞尔维亚铁路要求的 GSM-R 编号分配建议及方案。

注 13：卖方应提供系统调试、联调联试、试运行期间系统专用测试仪器仪表及工具（如有）。

注 14：卖方应完成但不限于如下系统接口内容（如需接口二次开发，由双方另行商定）：

（1）负责与信号专业共同完成与本工程信号系统；

注 15：卖方应负责提供所供设备机柜的底座。

（五）、分项报价表

附件-诺苏段详细报价表.xlsx

求和项:Price ($)AxB	列标签			
行标签	Material	Material with service	Service	总计
ACCESS CONTROL SYSTEM	110,568.21			110,568.21
AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	285,000.00	4,000.00		289,000.00
AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	41,060.75			41,060.75
AUTOMATIC FIRE DETECTION (AFD-FAS)	525,510.85	10,000.00		535,510.85
CLOCK SYSTEM	410,015.04			410,015.04
COMMON COMMUNICATION NETWORK	3,977,073.62	3,618.14	1,930,000.00	5,910,691.76
EIRENE DISPATCHING SYSTEM	680,353.73	7,000.00	-	687,353.73
ENTRY OF THE CABLES owned by Telekom Srbija a.d.	12,661.56	1,055.13		13,716.69
ENVIRONMENTAL MONITORING SYSTEM	115,316.74	1,000.00		116,316.74
FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	53,066.46	2,000.00		55,066.46
GSM-R SYSTEM	53,294.66	-	140,500.00	193,794.66
INFORMATION DISPLAY SYSTEM	525,976.00			525,976.00
INTEGRATION OF SECURITY SYSTEMS	814,062.65	1,748.67		815,811.32
integration with other systems		-		-
INTRUSION DETECTION SYSTEM	128,645.01	5,000.00		133,645.01
MONITROING SYSTEM FOR Abis, A AND INTERFACE TOWARDS RBC	-	2,000.00		2,000.00
OTN	833,326.98		272,500.00	1,105,826.98
PUBLIC ADDRESS SYSTEM	863,625.40	17,852.31		881,477.71
SOS SYSTEM	33,597.77			33,597.77
TRANSMISSION SYSTEM FOR CRITICAL SERVICES	1,416,942.14		357,000.00	1,773,942.14
TWO-WAY COMMUNICATION MICROPHONE SYSTEM	28,059.35			28,059.35
VIDEO SURVEILLANCE SYSTEM	3,470,295.01			3,470,295.01
VoIP COMMUNICATION SYSTEM	316,273.81			316,273.81
总计	**14,694,725.74**	**55,274.25**	**2,700,000.00**	**17,450,000.00**

Volume	Site	System	Item Description	Jed more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.5.2	Novi Sad	OTN	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IUP70124 x 2 pcs, DBK24800--, DBKOB080--, DSSBA050--, or equivalnet)	pcs	1	2,457.31	2,457.31	Huawei	Material
5.5.2	Novi Sad	OTN	OTN / DWDM device for MUX / DEMUX of up to 40 10GB channels over two optical fibers SM G.657.A1 from two directions, with suitable adjustable line cards and redundant universal cross-connect board. It provides 5 10GB channels on the user's page. The device has the possibility of spectral analysis and communication with the remote center. Supplied with redundant power supply - transiver module SFP + 10GB SM, LC Hot Swappable - 2 pcs- transiver module SFP + 10GB SM, LC Hot Swappable - 7 pcs- transiver module SFP 10G, SM, duplex LC Hot Swappable - 2 pc- system cables and other equipment to connect the system elements between each other and with the Intranet- dispersion compensation modules- amplifiers, attenuators	pcs	1	66,478.00	66,478.00	Huawei	Material
5.5.2	Vrbas	OTN	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IUP70124 x 2 pcs, DBK24800--, DBKOB080--, DSSBA050--, or equivalnet)	pcs	1	2,457.31	2,457.31	Huawei	Material
5.5.2	Vrbas	OTN	OTN / DWDM device for MUX / DEMUX of up to 40 10GB channels over two optical fibers SM G.657.A1 from two directions, with suitable adjustable line cards and redundant universal cross-connect board. It provides 5 10GB channels on the user's page. The device has the possibility of spectral analysis and communication with the remote center. Supplied with redundant power supply - transiver module SFP + 10GB SM, LC Hot Swappable - 2 pcs- transiver module SFP + 10GB SM, LC Hot Swappable - 2 pcs- system cables and other equipment to connect the system elements between each other and with the Intranet- dispersion compensation modules- amplifiers, attenuators	pcs	1	66,478.00	66,478.00	Huawei	Material
5.5.2	Backa Topola	OTN	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IUP70124 x 2 pcs, DBK24800--, DBKOB080--, DSSBA050--, or equivalnet)	pcs	1	2,457.31	2,457.31	Huawei	Material
5.5.2	Backa Topola	OTN	OTN / DWDM device for MUX / DEMUX of up to 40 10GB channels over two optical fibers SM G.657.A1 from two directions, with suitable adjustable line cards and redundant universal cross-connect board. It provides 5 10GB channels on the user's page. The device has the possibility of spectral analysis and communication with the remote center. Supplied with redundant power supply - transiver module SFP + 10GB SM, LC Hot Swappable - 2 pcs- transiver module SFP + 10GB SM, LC Hot Swappable - 2 pcs- system cables and other equipment to connect the system elements between each other and with the Intranet- dispersion compensation modules- amplifiers, attenuators	pcs	1	66,478.00	66,478.00	Huawei	Material
5.5.2	Subotica	OTN	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IUP70124 x 2 pcs, DBK24800--, DBKOB080--, DSSBA050--, or equivalnet)	pcs	1	2,457.31	2,457.31	Huawei	Material
5.5.2	Subotica	OTN	OTN / DWDM device for MUX / DEMUX of up to 40 10GB channels over two optical fibers SM G.657.A1 from two directions, with suitable adjustable line cards and redundant universal cross-connect board. It provides 5 10GB channels on the user's page. The device has the possibility of spectral analysis and communication with the remote center. Supplied with redundant power supply - transiver module SFP + 10GB SM, LC Hot Swappable - 2 pcs- transiver module SFP + 10GB SM, LC Hot Swappable - 4 pcs- transiver module SFP 10G, SM, duplex LC Hot Swappable - 2 pc- system cables and other equipment to connect the system elements between each other and with the Intranet- dispersion compensation modules- amplifiers, attenuators	pcs	1	66,478.00	66,478.00	Huawei	Material
5.5.2	ENTIRE SECTION	OTN	NMS extension	set	1	548,776.44	548,776.44	Huawei	Material
5.7	Whole Line	COMMON COMMUNICATION NETWORK	NMS extension (include Licenses for extension)	set	1	810,082.02	810,082.02	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	8	2,163.19	17,305.53	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	24	2,901.24	69,629.67	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	32	2,308.49	73,871.52	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	LSN - A modular router with a line processing card with a minimum 24x10GSFP + port and a flexible line card equipped with 24 100 / 1000Base-X SFP ports and 6 10GB SFP + ports. Supplied with redundant power supply, IGW and CGN functionality. (NE40E-X8 or equivalent) with:- transiver module SFP + 10GB SM, LC Hot Swappable - 7 pcs- transiver module SFP + 10GB SM, LC Hot Swappable - 6 pcs- transiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 6 pcs- transiver module SFP 1000SX, MM, duplex LC Hot Swappable - 6 pcs- system cables	pcs	1	220,515.81	220,515.81	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	DC Core switch with 48x10GE SFP+ ports (capable of working as 2/4 / 8G FC ports), 16 ports capable of working as 8G FC, and 6x40GE QSFP+ ports. Supplied with redundant power supply (CE6850U-48S6Q-HI or equivalent)- transiver module SFP+ 10GB, MM, duplex LC Hot Swappable - 2 pcs- transiver module SFP 10G, MM, duplex LC Hot Swappable - 0 pc- transiver module SFP 10G, SM, duplex LC Hot Swappable - 1 pc- system cables	pcs	2	46,425.85	92,851.71	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	DC Core switch with 48x10GE SFP+ ports (capable of working as 2/4 / 8G FC ports), 16 ports capable of working as 8G FC, and 6x40GE QSFP+ ports. Supplied with redundant power supply (CE6850U-48S6Q-HI or equivalent)- transiver module SFP 1G, SM, duplex LC Hot Swappable - 4 pcs- transiver module SFP 10G, MM, duplex LC Hot Swappable - 1 pc- transiver module SFP 1G, SM, duplex LC Hot Swappable - 24 pcs- system cables	pcs	2	50,672.32	101,344.63	Huawei	Material

Volume	Site	System	Item Description	Jed more	Quantity A	Unit price ($) B	Price ($) A×B	Vendor	type
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,308.49	2,308.49	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,901.24	5,802.47	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,308.49	2,308.49	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	2	2,163.19	4,326.38	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	4	2,901.24	11,604.94	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,901.24	5,802.47	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	38	200.00	7,600.00	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	38	63.72	2,421.36	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,308.49	2,308.49	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	2	2,163.19	4,326.38	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	DC Core switch with 48x10GE SFP+ ports (capable of working as 2/4 / 8G FC ports), 16 ports capable of working as 8G FC, and 6x40GE QSFP+ ports Supplied with redundant power supply (CE6850U-48S6Q-HI or equivalent)- transiver module SFP+ 10GB, MM, duplex LC Hot Swappable - 4 pcs- transiver module SFP 10G, SM, duplex LC Hot Swappable - 1 pc- transiver module SFP 10G, SM, duplex LC Hot Swappable - 1 pc- system cables	pcs	2	50,610.94	101,221.87	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	TOR DC switch with 24x1GE RJ45, 4x10GE SFP+ and 2x40GE QSFP+ ports. Supplied with redundant power supply (CE5855-24T4S2Q-EI or equivalent)- transceiver modules SFP + 10GB, MM and minimum 10G stacking interconnections - 2 kom- system cables for connection to equipment in the river and DC Core switch	pcs	12	4,583.43	55,001.18	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	2	2,163.19	4,326.38	Huawei	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	TOR DC switch with 24x1GE RJ45, 4x10GE SFP + and 2x40GE QSFP + ports. Supplied with redundant power supply (CE5855-24T4S2Q-EI or equivalent)- transceiver modules SFP + 10GB, MM and minimum 10G stacking interconnections - 2 kom- system cables for connection to equipment in the river and DC Core switch	pcs	2	4,583.43	9,166.86	Huawei	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material

Volumo	Sito	System	Item Description	Jed. mera	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	ASN type 2, Layer 3 switch with 48 10/1000Base - X SFP ports and 4 10GB SFP+ ports. Completed with redundant power supply (or a combination of devices with equivalent characteristics), (S5720-56C-EI-48S-AC or equivalent) with:- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 8 pcs - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 12 pcs	pcs	1	12,561.67	12,561.67	Huawei	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,308.49	4,616.97	Huawei	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	ASN type 2, Layer 3 switch with 48 10/1000Base - X SFP ports and 4 10GB SFP+ ports. Completed with redundant power supply (or a combination of devices with equivalent characteristics), (S5720-56C-EI-48S-AC or equivalent) with:- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 8 pcs - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 12 pcs	pcs	1	12,561.67	12,561.67	Huawei	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,308.49	4,616.97	Huawei	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	ASN type 2, Layer 3 switch with 48 10/1000Base - X SFP ports and 4 10GB SFP+ ports. Completed with redundant power supply (or a combination of devices with equivalent characteristics), (S5720-56C-EI-48S-AC or equivalent) with:- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 12 pcs- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 8 pcs	pcs	1	12,561.67	12,561.67	Huawei	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,308.49	4,616.97	Huawei	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2,5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent lo:- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	15	200.00	3,000.00	Huawei	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	15	63.72	955.80	Huawei	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2,5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent with:- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	2	200.00	400.00	Huawei	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	2	63.72	127.44	Huawei	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	ASN type 2, Layer 3 switch with 48 10/1000Base - X SFP ports and 4 10GB SFP+ ports. Completed with redundant power supply (or a combination of devices with equivalent characteristics), (S5720-56C-EI-48S-AC or equivalent) with:- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 8 pcs - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 12 pcs	pcs	1	12,561.67	12,561.67	Huawei	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,308.49	4,616.97	Huawei	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material

Volumo	Site	System	Item Description	Jed. mero	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent to:- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	18	200.00	3,600.00	Huawei	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	18	63.72	1,146.96	Huawei	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	ASN type 2, Layer 3 switch with 48 10/1000Base - X SFP ports and 4 10GB SFP+ ports. Compleled with redundant power supply (or a combination of devices with equivalent characteristics), (S5720-56C-EI-48S-AC or equivalent) with:- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 8 pcs - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 12 pcs	pcs	1	12,561.67	12,561.67	Huawei	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,308.49	4,616.97	Huawei	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent to:- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	18	200.00	3,600.00	Huawei	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	18	63.72	1,146.96	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	ELSN - Router with 50 1GB SFP and 8 10GB SFP + ports. Supplied with redundant power supply (or a combination of devices with equivalent characteristics), (NE20E-S2F or equivalent) with:- transiver module SFP + 10GB SM, LC Hot Swappable - 2 pcs- transiver module SFP + 10GB OM3, LC Hot Swappable - 2 pcs- transiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 8 pcs- transiver module SFP 1000SX, MM, duplex LC Hot Swappable - 16 pcs	pcs	1	96,667.62	96,667.62	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	DC Core switch with 48x10GE SFP+ ports (capable of working as 2/4 / 8G FC ports), 16 ports capable of working as 8G FC, and 6x40GE QSFP+ ports. Supplied with redundant power supply (CE6850U-48S6Q-HI or equivalent)- transiver module SFP+ 10GB, MM, duplex LC Hot Swappable - 1 pcs- transiver module SFP 10G, MM, duplex LC Hot Swappable - 1 pc- transiver module SFP 10G, SM, duplex LC Hot Swappable - 0 pc- system cables	pcs	2	45,322.27	90,644.55	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,308.49	4,616.97	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front glass and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load (Schrack Technik DS42801O-A with lock DV900333-- x 2 pcs, IU070124--, DBK24800--, DBKO8080--,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 2 pcs	pcs	2	3,038.93	6,077.85	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 2 pcs	pcs	4	2,446.18	9,784.70	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent to:- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	18	200.00	3,600.00	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	18	63.72	1,146.96	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent with:- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	8	200.00	1,600.00	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	8	63.72	509.76	Huawei	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	2	2,163.19	4,326.38	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	TOR DC switch with 24x1GE RJ45, 4x10GE SFP + and 2x40GE QSFP + ports. Supplied with redundant power supply (CE5855-24T4S2Q-EI or equivalent)- transceiver modules SFP + 10GB, MM and minimum 10G stacking interconnections - 2 kom- system cables for connection to equipment in the river and DC Core switch	pcs	2	4,583.43	9,166.86	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	ASN type 2, Layer 3 switch with 48 10/1000Base - X SFP ports and 4 10GB SFP+ ports. Completed with redundant power supply (or a combination of devices with equivalent characteristics), (S5720-56C-EI-48S-AC or equivalent) with:- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 8 pcs - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 12 pcs	pcs	1	12,561.67	12,561.67	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,308.49	2,308.49	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front glass and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load (Schrack Technik DS42801O-A with lock DV900333-- x 2 pcs, IU070124--, DBK24800--, DBKO8080--,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 2 pcs	pcs	1	3,038.93	3,038.93	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front glass and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load (Schrack Technik DS42801O-A with lock DV900333-- x 2 pcs, IU070124--, DBK24800--, DBKO8080--,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 2 pcs	pcs	1	3,038.93	3,038.93	Huawei	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 2 pcs	pcs	1	2,446.18	2,446.18	Huawei	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	ASN type 2, Layer 3 switch with 48 10/1000Base - X SFP ports and 4 10GB SFP+ ports. Completed with redundant power supply (or a combination of devices with equivalent characteristics), (S5720-56C-EI-48S-AC or equivalent) with:- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 8 pcs - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 12 pcs	pcs	1	12,561.67	12,561.67	Huawei	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,308.49	4,616.97	Huawei	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics). (AR550C-2C6GE or equivalent to:- transceiver module SFP	pcs	18	200.00	3,600.00	Huawei	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	18	63.72	1,146.96	Huawei	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material

Volumo	Site	System	Item Description	Jed more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	ELSN - Router with 50 1GB SFP and 8 10GB SFP + ports. Supplied with redundant power supply (or a combination of devices with equivalent characteristics). (NE20E-S2F or equivalent) with:- transiver module SFP + 10GB SM, LC Hot Swappable - 2 pcs- transiver module SFP + 10GB OM3, LC Hot Swappable - 2 pcs- transiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 8 pcs- transiver module SFP 1000SX, MM, duplex LC Hot Swappable - 18 pcs	pcs	1	96,667.62	96,667.62	Huawei	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	DC Core switch with 48x10GE SFP+ ports (capable of working as 2/4 / 8G FC ports), 16 ports capable of working as 8G FC, and 6x40GE QSFP+ ports. Supplied with redundant power supply (CE6850U-48S6Q-HI or equivalent)- transiver module SFP+ 10GB, MM, duplex LC Hot Swappable - 1 pcs- transiver module SFP 10G, MM, duplex LC Hot Swappable - 1 pc- transiver module SFP 10G, SM, duplex LC Hot Swappable - 0 pc- system cables	pcs	2	45,322.27	90,644.55	Huawei	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	3	2,308.49	6,925.46	Huawei	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment:: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front glass and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load (Schrack Technik DS428010-A with lock DV900333-- x 2 pcs, IU070124--, DBK24800--, DBKO8080--	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 2 pcs	pcs	2	3,038.93	6,077.85	Huawei	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 2 pcs	pcs	2	2,446.18	4,892.35	Huawei	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent to:- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	24	200.00	4,800.00	Huawei	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	24	63.72	1,529.28	Huawei	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	2	2,163.19	4,326.38	Huawei	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	TOR DC switch with 24x1GE RJ45, 4x10GE SFP + and 2x40GE QSFP + ports. Supplied with redundant power supply (CE5855-24T4S2Q-EI or equivalent)- transceiver modules SFP + 10GB, MM and minimum 10G stacking interconnections - 2 kom- system cables for connection to equipment in the rower end DC Core switch	pcs	2	4,583.43	9,166.86	Huawei	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	ASN type 2, Layer 3 switch with 48 10/100Base - X SFP ports and 4 10GB SFP+ ports. Completed with redundant power supply (or a combination of devices with equivalent characteristics), (S5720-56C-EI-48S-AC or equivalent) with:- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 8 pcs - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 12 pcs	pcs	1	12,561.67	12,561.67	Huawei	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,308.49	4,616.97	Huawei	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent to:- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	18	200.00	3,600.00	Huawei	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	18	63.72	1,146.96	Huawei	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material

Volume	Site	System	Item Description	Jed. mera	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	ASN type 2, Layer 3 switch with 48 10/1000Base - X SFP ports and 4 10GB SFP+ ports. Completed with redundant power supply (or a combination of devices with equivalent characteristics), (S5720-56C-EI-48S-AC or equivalent) with: - transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 8 pcs - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 12 pcs	pcs	1	12,561.67	12,561.67	Huawei	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,308.49	4,616.97	Huawei	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent to - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	18	200.00	3,600.00	Huawei	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	18	63.72	1,146.96	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	5	2,163.19	10,815.95	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	15	2,901.24	43,518.54	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	10	2,308.49	23,084.85	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,308.49	2,308.49	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,901.24	5,802.47	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,308.49	2,308.49	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,901.24	5,802.47	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,308.49	2,308.49	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	ELSN - Router with 50 1GB SFP and 8 10GB SFP + ports. Supplied with redundant power supply (or a combination of devices with equivalent characteristics), (NE20E-S2F or equivalent) with:- transiver module SFP + 10GB SM, LC Hot Swappable - 7 pcs- transiver module SFP + 10GB SM, LC Hot Swappable - 4 pcs- transiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 6 pcs- transiver module SFP 1000SX, MM, duplex LC Hot Swappable - 8 pcs- system cables	pcs	1	98,541.83	98,541.83	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,901.24	2,901.24	Huawei	Material

Volume	Site	System	Item Description	Jed_more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Subotica	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,308.49	2,308.49	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	1	2,308.49	2,308.49	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	2	2,163.19	4,326.38	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,901.24	5,802.47	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	1	2,163.19	2,163.19	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	DC Core switch with 48x10GE SFP+ ports (capable of working as 2/4 / 8G FC ports), 16 ports capable of working as 8G FC, and 6x40GE QSFP+ ports. Supplied with redundant power supply (CE6850U-48S6Q-HI or equivalent)- transiver module SFP+ 10GB, MM, duplex LC Hot Swappable - 2 pcs- transiver module SFP 10G, MM, duplex LC Hot Swappable - 0 pc- transiver module SFP 10G, SM, duplex LC Hot Swappable - 1 pc- system cables	pcs	2	50,097.35	100,194.71	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	DC Core switch with 48x10GE SFP+ ports (capable of working as 2/4 / 8G FC ports), 16 ports capable of working as 8G FC, and 6x40GE QSFP+ ports. Supplied with redundant power supply (CE6850U-48S6Q-HI or equivalent)- transiver module SFP 1G, MM, duplex LC Hot Swappable - 5 pcs- transiver module SFP 10G, SM, duplex LC Hot Swappable - 1 pc- transiver module SFP 1G, SM, duplex LC Hot Swappable - 15 pcs- system cables	pcs	2	50,326.59	100,653.17	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	2	2,901.24	5,802.47	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent to:- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	45	200.00	9,000.00	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	45	63.72	2,867.40	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	2	2,163.19	4,326.38	Huawei	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	TOR DC switch with 24x1GE RJ45, 4x10GE SFP + and 2x40GE QSFP + ports. Supplied with redundant power supply (CE6855-24T4S2Q-EI or equivalent)- transceiver modules SFP + 10GB, MM and minimum 10G stacking interconnections - 2 kom- system cables for connection to equipment in the town and DC Core switch	pcs	2	4,583.43	9,166.86	Huawei	Material
5.7	ETS	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	3	2,163.19	6,489.57	Huawei	Material
5.7	ETS	COMMON COMMUNICATION NETWORK	ASN type 4, Layer 3 switch with 16x1GB SFP port, 8x1GB RJ45 ports and 2x10GB SFP + ports. Completed with dual power and adapters (or a combination of devices with equivalent characteristics), (NE05E-SE or equivalent) with:- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 2 pcs - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	3	4,922.19	14,766.58	Huawei	Material
5.7	ETS	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent with:- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	12	200.00	2,400.00	Huawei	Material
5.7	ETS	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	12	63.72	764.64	Huawei	Material
5.7	TPS	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	4	2,163.19	8,652.76	Huawei	Material
5.7	TPS	COMMON COMMUNICATION NETWORK	ASN type 4, Layer 3 switch with 16x1GB SFP port, 8x1GB RJ45 ports and 2x10GB SFP + ports. Completed with dual power and adapters (or a combination of devices with equivalent characteristics), (NE05E-SE or equivalent) with:- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 2 pcs - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	4	4,922.19	19,688.77	Huawei	Material
5.7	TPS	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent to:- transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	12	200.00	2,400.00	Huawei	Material
5.7	TPS	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	12	63.72	764.64	Huawei	Material

Volume	Site	System	Item Description	Jed more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	TPSn	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	3	2,163.19	6,489.57	Huawei	Material
5.7	TPSn	COMMON COMMUNICATION NETWORK	ASN type 4, Layer 3 switch with 16x1GB SFP port, 8x1GB RJ45 ports and 2x10GB SFP + ports. Completed with dual power and adapters (or a combination of devices with equivalent characteristics), (NE05E-SE or equivalent) with: - transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 2 pcs - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs.	pcs	3	4,922.19	14,766.58	Huawei	Material
5.7	TPSn	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent with: - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pc	pcs	9	200.00	1,800.00	Huawei	Material
5.7	TPSn	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	9	63.72	573.48	Huawei	Material
5.7	OGF	COMMON COMMUNICATION NETWORK	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs,	pcs	9	2,163.19	19,468.72	Huawei	Material
5.7	OGF	COMMON COMMUNICATION NETWORK	ASN type 1, Layer 3 switch with 24x1G SFP ports, 4xcombo ports (10/100 / 1000Base or SFP) and 4x10GB SFP+ ports. Completed with dual power supply (or a combination of devices with equivalent characteristics), (S5720-36C-EI-28S-AC or equivalent) with: - transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 4 pcs - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 5 pcs	pcs	9	5,360.34	48,243.09	Huawei	Material
5.7	OGF	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports (PoE in accordance with IEEE 802.3at) and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-PWR-LI-AC or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	9	2,901.24	26,111.13	Huawei	Material
5.7	OGF	COMMON COMMUNICATION NETWORK	Managed Layer 2 switch with 24 10/100/1000Base-T Ethernet ports and 4 1GB SFP ports (or a combination of devices with the equivalent characteristics), (S5720-28P-LI or equivalent) - transceiver module SFP 1000SX, MM, duplex LC Hot Swappable - 2 pcs	pcs	9	2,308.49	20,776.37	Huawei	Material
5.7	Bridge	COMMON COMMUNICATION NETWORK	Industrial Layer 2 switch with 2xGE combo and 6xGE RJ-45 ports (with PoE according to IEEE 802.3at) and 2x2.5G SFP ports, managed (or combination of devices with equivalent characteristics), (AR550C-2C6GE or equivalent to:- transceiver module SFP 1G, SM, duplex LC Hot Swappable up to 10km - 2 pc	pcs	10	200.00	2,000.00	Huawei	Material
5.7	Bridge	COMMON COMMUNICATION NETWORK	Power supply for industrial switch compatible with industrial switch, 240W (180W PoE), (PAC-240WA or equivalent)	pcs	10	63.72	637.20	Huawei	Material
5.8	Whole line	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Extension of the NMS for transmission system for critical services	set	1	209,483.06	209,483.06	Huawei	Material
5.8	VRBAS RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	VRBAS RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	VRBAS RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	NOVI SAD RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	NOVI SAD RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	NOVI SAD RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (core layer) min troughtput 2.5G, equiped with all nesessary (OSN580, Huawei or equivalent)	pcs	2	21,386.00	42,771.99	Huawei	Material
5.8	NOVI SAD RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit DC/DC (S5720-28X-SI DC/DC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP LC duplex SM, Hot Swappable - 2 pcs	pcs	1	2,244.57	2,244.57	Huawei	Material
5.8	NOVI SAD RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit AC/AC (or a combination of devices with the equivalent characteristics) (S5720-28X-SI AC/AC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP LC duplex SM, Hot Swappable - 5 pcs	pcs	2	1,872.78	3,745.56	Huawei	Material
5.8	ETS NOVI SAD	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--,	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	ETS NOVI SAD	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	ETS NOVI SAD	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.8	SAJLOVO LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	SAJLOVO LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	SAJLOVO LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	SAJLOVO LOCATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit DC/DC (or a combination of devices with the equivalent characteristics) (S5720-28X-SI DC/DC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 3 pcs	pcs	1	2,244.57	2,244.57	Huawei	Material
5.8	RUMENKA RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	RUMENKA RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	RUMENKA RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	RUMENKA RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit DC/DC (or a combination of devices with the equivalent characteristics) (S5720-28X-SI DC/DC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 3 pcs	pcs	1	2,244.57	2,244.57	Huawei	Material
5.8	KISAC RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	KISAC RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	KISAC RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	KISAC RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit DC/DC (S5720-28X-SI DC/DC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 3 pcs	pcs	1	2,244.57	2,244.57	Huawei	Material
5.8	TSP KISAC	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	TSP KISAC	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	TSP KISAC	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary. (OSN550, Huawei or equivalent	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	STEPANOVICEVO RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	STEPANOVICEVO RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	STEPANOVICEVO RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material

Volumo	Site	System	Item Description	Jed more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.8	STEPANOVICEVO RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit DC/DC (or a combination of devices with the equivalent characteristics) (S5720-28X-SI DC/DC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 3 pcs	pcs	1	2,244.57	2,244.57	Huawei	Material
5.8	ZMAJEVO RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	ZMAJEVO RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	ZMAJEVO RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	ZMAJEVO RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit DC/DC (S5720-28X-SI DC/DC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 3 pcs	pcs	1	2,244.57	2,244.57	Huawei	Material
5.8	TSPn ZMAJEVO	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	TSPn ZMAJEVO	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	TSPn ZMAJEVO	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	BACKO DOBRO POLJE LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	BACKO DOBRO POLJE LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	BACKO DOBRO POLJE LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	VRBAS NOVA RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	VRBAS NOVA RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	VRBAS NOVA RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (core layer) min troughtput 2.5G, equiped with all nesessary (OSN580, Huawei or equivalent)	pcs	2	21,386.00	42,771.99	Huawei	Material
5.8	VRBAS NOVA RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit DC/DC (S5720-28X-SI DC/DC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 3 pcs	pcs	1	2,244.57	2,244.57	Huawei	Material
5.8	VRBAS NOVA RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit AC/AC (or a combination of devices with the equivalent characteristics) (S5720-28X-SI AC/AC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 1 pcs	pcs	1	1,872.78	1,872.78	Huawei	Material
5.8	VRBAS VINOGRADSKA LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	VRBAS VINOGRADSKA LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material

Volumo	Site	System	Item Description	Jed moro	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.8	VRBAS VINOGRADSKA LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	ETS VRBAS	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	ETS VRBAS	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	ETS VRBAS	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	VRBAS ATAR LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	VRBAS ATAR LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	VRBAS ATAR LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	LOVCENAC RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	LOVCENAC RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	LOVCENAC RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	LOVCENAC RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit DC/DC (S5720-28X-SI DC/DC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 3 pcs	pcs	1	2,244.57	2,244.57	Huawei	Material
5.8	TSP LOVCENAC	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	TSP LOVCENAC	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	TSP LOVCENAC	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	MALI IDJOS POLJE LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	MALI IDJOS POLJE LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	MALI IDJOS POLJE LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	BACKA TOPOLA RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	BACKA TOPOLA RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material

Volume	Site	System	Item Description	Jed_more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.8	BACKA TOPOLA RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (core layer) min troughtput 2.5G, equiped with all nesessary. (OSN580, Huawei or equivalent)	pcs	2	21,386.00	42,771.99	Huawei	Material
5.8	BACKA TOPOLA RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit DC/DC. (S5720-28X-SI DC/DC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 3 pcs	pcs	1	2,244.57	2,244.57	Huawei	Material
5.8	BACKA TOPOLA RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit AC/AC (or a combination of devices with the equivalent characteristics). (S5720-28X-SI AC/AC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 1 pcs	pcs	1	1,872.78	1,872.78	Huawei	Material
5.8	TSPn BACKA TOPOLA	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximatelety, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	TSPn BACKA TOPOLA	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack maunlable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	TSPn BACKA TOPOLA	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	MALI BEOGRAD LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximatelety, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	MALI BEOGRAD LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack maunlable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	MALI BEOGRAD LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	ZEDNIK RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximatelety, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	ZEDNIK RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack maunlable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	ZEDNIK RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	ZEDNIK RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit DC/DC. (S5720-28X-SI DC/DC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 3 pcs	pcs	1	2,244.57	2,244.57	Huawei	Material
5.8	TSP ZEDNIK	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximatelety, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	TSP ZEDNIK	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack maunlable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	TSP ZEDNIK	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	VERUSIC LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Free-standing 42U rack - dimensions 2000x800x1000mm approximatelety, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	VERUSIC LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack maunlable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	VERUSIC LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material

Volumo	Site	System	Item Description	Jed. mero	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.8	NAUMOVICEVO RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	NAUMOVICEVO RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	NAUMOVICEVO RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	NAUMOVICEVO RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit DC/DC (S5720-28X-SI DC/DC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 3 pcs	pcs	1	2,244.57	2,244.57	Huawei	Material
5.8	ETS SUBOTICA	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	ETS SUBOTICA	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	ETS SUBOTICA	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	NOVI GRAD LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	NOVI GRAD LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	NOVI GRAD LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	SUBOTICA RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	SUBOTICA RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	SUBOTICA RAILWAY STATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (core layer) min troughtput 2.5G, equiped with all nesessary (OSN580, Huawei or equivalent)	pcs	2	21,386.00	42,771.99	Huawei	Material
5.8	SUBOTICA RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit DC/DC (S5720-28X-SI DC/DC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 3 pcs	pcs	1	2,244.57	2,244.57	Huawei	Material
5.8	SUBOTICA RAILWAY STATION	EIRENE DISPATCHING SYSTEM	Managed Layer 3 switch with min 24 10/100/1000Base-T RJ45 ports and min 4 1GB SFP ports, equipped with redundant power unit AC/AC (or a combination of devices with the equivalent characteristics). (S5720-28X-SI AC/AC, Huawei or equivalent) Equipped with: - transceiver module 1000LX SFP, LC duplex, SM, Hot Swappable - 1 pcs	pcs	2	1,872.78	3,745.56	Huawei	Material
5.8	TSP SUBOTICA	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	TSP SUBOTICA	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	TSP SUBOTICA	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.8	ZORKA LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19" , IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	ZORKA LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	ZORKA LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	STATE BORDER (KELEBIA) LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19" , IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with following equipment:	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	STATE BORDER (KELEBIA) LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	STATE BORDER (KELEBIA) LOCATION	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent)	pcs	2	15,084.62	30,169.23	Huawei	Material
5.8	TSPn STATE BORDER (KELEBIJA)	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19" , IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	pcs	1	2,163.02	2,163.02	Huawei	Material
5.8	TSPn STATE BORDER (KELEBIJA)	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	- PDU, -48V DC 19" rack mauntable, in accordance with active equipment	pcs	2	941.99	1,883.98	Huawei	Material
5.8	TSPn STATE BORDER (KELEBIJA)	TRANSMISSION SYSTEM FOR CRITICAL SERVICES	MSTP equipment (access layer) min troughtput 622M, equiped with all nesessary (OSN550, Huawei or equivalent	pcs	2	15,084.62	30,169.23	Huawei	Material
5.5.2	Novi Sad	OTN	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH	pcs	2	32.30	64.60	Others	Material
5.5.2	Novi Sad	OTN	- optical patch cord E2000/APC - LC duplex G657, length 50m, LSZH	pcs	2	32.30	64.60	Others	Material
5.5.2	Novi Sad	OTN	- optical patch cord LC - LC duplex G657 A1, length 50m, LSZH	pcs	7	21.50	150.50	Others	Material
5.5.2	Novi Sad	OTN	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	2	9.45	18.90	Others	Material
5.5.2	Vrbas	OTN	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH	pcs	2	32.30	64.60	Others	Material
5.5.2	Vrbas	OTN	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH	pcs	2	32.30	64.60	Others	Material
5.5.2	Vrbas	OTN	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	2	9.45	18.90	Others	Material
5.5.2	Backa Topola	OTN	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH	pcs	2	32.30	64.60	Others	Material
5.5.2	Backa Topola	OTN	- optical patch cord LC - LC duplex G657 A1, length 50m, LSZH	pcs	2	21.50	43.00	Others	Material
5.5.2	Backa Topola	OTN	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	2	9.45	18.90	Others	Material
5.5.2	Subotica	OTN	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH	pcs	2	32.30	64.60	Others	Material
5.5.2	Subotica	OTN	- optical patch cord E2000/APC - LC duplex G657, length 50m, LSZH	pcs	2	32.30	64.60	Others	Material
5.5.2	Subotica	OTN	- optical patch cord LC - LC duplex G657 A1, length 50m, LSZH	pcs	4	21.50	86.00	Others	Material
5.5.2	Subotica	OTN	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	2	9.45	18.90	Others	Material
5.5.2	ENTIRE SECTION	OTN	NMS operator equipment. It includes two workstations with two 32 " monitors for each	set	8	1,000.00	8000.00	Others	Material
5.6	OPSTA SVESKA	VIDEO SURVEILLANCE SYSTEM	Procurement and delivery of license for IP video management system for additional server of video surveillance (compatible with the planned video management system in the central station - ownership of the ISR) (BVMS License Enterprise base orequivalent)	pcs	1	14,343.24	14343.24	Others	Material
5.6	OPSTA SVESKA	VIDEO SURVEILLANCE SYSTEM	Procurement and delivery of license for site expension (compatible with the planned video management system in the central station - ownership of the ISR) (BVMS Professional 10.1, License Siteexpansion or equivalent)	pcs	1	609.96	609.96	Others	Material
5.6	OPSTA SVESKA	VIDEO SURVEILLANCE SYSTEM	Server for video menagment BOSCH MHW-S380RASC	set	1	8,360.10	8360.10	Others	Material
5.6	OPSTA SVESKA	VIDEO SURVEILLANCE SYSTEM	Procurement and delivery of basic configuration Enterprise license for IP video management system for additional server of video surveillance (compatible with the planned video management system in the central station - ownership of the ISR) (MBV-MENT or equivalent)	pcs	1	2,176.33	2176.33	Others	Material
5.6	OPSTA SVESKA	VIDEO SURVEILLANCE SYSTEM	Procurement and delivery of basic configuration Enterprise license for site expansion (compatible with the planned video management system in the central station - ownership of the ISR) (MBV-MSUB or equivalent)	pcs	1	309.86	309.86	Others	Material
5.6	OPSTA SVESKA	VIDEO SURVEILLANCE SYSTEM	Video operator equipment. It includes 1 workstationswith two 32 " monitors for each	set	1	1,000.00	1000.00	Others	Material
5.6	OPSTA SVESKA	VIDEO SURVEILLANCE SYSTEM	Proffesional video wall with dedicated controller andeight 55" monitors	set	0	-	0.00	Others	Material
5.6	OPSTA SVESKA	VIDEO SURVEILLANCE SYSTEM	System configuration, issuing of attestation and Commissioning (for the whole section)User training (for the entire section)Designing and preparation of documentation (for the entire section)	set	1	10,000.00	10000.00	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	License for interconnection of integration software with video management software (compatible with the planned security system in the central station - ownership of the ISR) (BIS-FGEN-BVMS48 orequivalent)	pcs	1	1,689.46	1689.46	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of the license package for additional 128 ports of the security systems integration system (compatible with the planned security system at the central station - ownership of the ISR) (BOSCH BIS-XACE-128D48 or equivalent)	pcs	2	13,438.62	26877.24	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Additional license for one operator place. (compatible with the planned security system in the central station - ownership of the ISR) (BOSCH BIS-XGEN-1CLI48 or equivalent)	pcs	1	845.40	845.40	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of a license for an additional 10 divisions of the security system integration system (compatible with the planned security system BIS- XGEN-10DV48 or equivalent)	pcs	1	17,420.43	17420.43	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of the license package for additional 1000 elements of the security system integration system (compatible with the planned security system in the central station - ownership ofthe ISR)	pcs	16	3,619.67	57914.72	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of the extension of license package highly sophisticated system for managing and safe operation of alarm systems, access control and fire alarm systems. Simple integration and configuration of the subsystems through the OPC standard. Automatization of urgent responses to subsystems' alarms using user defined rules (compatible with planned security system at central station - ownership of ISR)(BOSCH BIS-BGEN-B48 i BIS-FAUF-BPA48 a BIS-FACE-BPA48 or equivalent	pcs	1	16,277.25	16277.25	Others	Material

Volumo	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	License for Alarm Management Package. Contains message distribution, timer, operators alarms. (compatible with the planned security system at the central station - ownership of the ISR)BOSCH BIS-FGEN-AMPK48 or equivalent	pcs	1	4,122.01	4122.01	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	License for Cardholder Management Package. (compatible with the planned security system at the central station - ownership of the ISR)BOSCH BIS-FACE-API48 or equivalent	pcs	1	6,418.88	6418.88	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	License for Multi server integration (compatible with the planned security system at the central station - ownership of the ISR)BOSCH BIS-FGEN-MSRV48 or equivalent	pcs	1	11,198.85	11198.85	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	License for basic configuration interconnection of integration software with video management software. (compatible with the planned security system in the central station - ownership of the ISR) (BIS-SMA- BVMS or equivalent)	pcs	3	2,815.30	8445.90	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of basic configuration the license package for additional 128 ports of the security systems integration system (compatible with the planned security system at the central station - ownership of the ISR) (BOSCH BIS-SMA-128DR or equivalent)	pcs	6	1,585.89	9515.34	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Additional license for basic configuration one operator place. (compatible with the planned security system in the central station - ownership of the ISR) (BOSCH BIS-SMA-CLI or equivalent)	pcs	3	1,303.08	3909.24	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of basic configuration a license for an additional 10 divisions of the security system integration system (compatible with the planned security system at the central station - ownership of the ISR) (BOSCH BIS-SMA-10DIV orequivalent)	pcs	3	2,049.46	6148.38	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of basic configuration the license package for additional 1000 elements of the security system integration system (compatible with the planned security system in the central station - ownership of the ISR) BIS-SMA-1KP	pcs	48	3,619.67	173744.16	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of basic configuration extension of highly sophisticated system for managing and safe operation of alarm systems, access control and fire alarm systems. Simple integration and configuration of the subsystems through the OPC standard. Automatization of urgent responses to subsystems' alarms using user defined rules (compatible with planned security system at central station - ownership of ISR)BOSCH BIS-SMA-BAS-I BIS-SMA-ALIE # BIS-SMA-ACE or equivalent	pcs	3	2,576.90	7730.70	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of basic configuration License for Alarm Management Package. Contains message distribution, timer, operators alarms. (compatible with the planned security system at the central station - ownership of the ISR)BOSCH BIS-SMA-AMPK or equivalent	pcs	3	4,122.01	12366.03	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	License for basic configuration Cardholder Management Package. (compatible with the planned security system at the central station - ownership of the ISR)BOSCH BIS-SMA-ACEAPI or equivalent	pcs	3	895.42	2686.26	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	License for basic configuration Multi server integration (compatible with the planned security system at the central station - ownership of the ISR) BOSCH BIS-SMA-MSRV or equivalent	pcs	3	1,293.11	3879.33	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Video operator equipment. It includes twoworkstations with two 32 " monitors for each	set	1	1,000.00	1000.00	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Proffesional video wall with dedicated controller andeight 55" monitors	set	0	-	0.00	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	Server for BIS and database BOSCH MHW-S380RA-SC	set	2	10,307.59	20615.18	Others	Material
5.6	OPSTA SVESKA	INTEGRATION OF SECURITY SYSTEMS	System configuration, issuing of attestation and Commissioning (for the whole section)User training (for the entire section)Designing and preparation of documentation (for the entire section)	set	1	10,000.00	10000.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	VIDEO SURVEILLANCE SYSTEM	Procurement and delivery of licenses for cameras for IP video management system of video surveillance (compatible with the planned video management system in the central station - ownership of the ISR) (BOSCH BVMS Professional 10.1, License Camera/decoder expansion or equivalent)	pcs	1400	348.90	488460.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	VIDEO SURVEILLANCE SYSTEM	Procurement and delivery of licenses for workstations for video management system IP video surveillance (compatible with the planned video management system in the central station - ownership of the ISR) (BVMS Professional 10.1, License Workstation expansion, or equivalent)	pcs	20	630.70	12614.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	VIDEO SURVEILLANCE SYSTEM	Procurement and delivery of license for IP video management system for additional server of video surveillance (compatible with the planned video management system in the central station - ownership of the ISR) (BVMS Professional 10.1, License Professional base or equivalent)	pcs	0	10,688.67	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	VIDEO SURVEILLANCE SYSTEM	Server for video menegment for 1400 camerasBOSCH MHW-S380RA-SC	set	0	6,230.00	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	VIDEO SURVEILLANCE SYSTEM	Procurement and delivery of basic configuration of licenses for cameras for IP video management system of video surveillance (compatible with the planned video management system in the central station - ownership of the ISR) (MBV-MCHAN, LicenseCamera/decoder expansion or equivalent)	pcs	5100	53.68	273768.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	VIDEO SURVEILLANCE SYSTEM	Procurement and delivery of basic configuration of licenses for workstations for video management system IP video surveillance (compatible with the planned video management system in the central station - ownership of the ISR) (MBV-MWST, or equivalent)	pcs	90	100.03	9002.70	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	VIDEO SURVEILLANCE SYSTEM	Procurement and delivery of basic configuration of license for IP video management system for additional server of video surveillance (compatible with the planned video management system in the central station - ownership of the ISR) (MBV-MPRO or equivalent)	pcs	0	-	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	VIDEO SURVEILLANCE SYSTEM	Video operator equipment. It includes two workstationswith two 32 " monitors for each .	set	0	1,000.00	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	VIDEO SURVEILLANCE SYSTEM	Proffesional video wall with dedicated controller andeight 55" monitors	set	0	-	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	VIDEO SURVEILLANCE SYSTEM	System configuration, issuing of attestation and Commissioning (for the whole section)User training (for the entire section)Designing and preparation of documentation (for the entire section)	set	1	10,000.00	10000.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	License for interconnection of integration software with video management software. (compatible with the planned security system in the central station - ownership of the ISR) (BIS-FGEN-BVMS48 orequivalent)	pcs	0	1,259.00	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of the license package for additional 32 ports of the security systems integration system (compatible with the planned security system at the central station - ownership of the ISR) (BOSCH BIS-XACE-32DR48 or equivalent)	pcs	3	2,541.81	7625.43	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Additional license for one operator place. (compatible with the planned security system in the central station - ownership of the ISR) (BOSCH BIS-XGEN-1CLI48 or equivalent)	pcs	6	845.40	5072.40	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of a license for an additional division of the security system integration system (compatible with the planned security system at the central station - ownership of the ISR) (BOSCH BIS- XGEN-1DIV48 or equivalent)	pcs	4	2,195.85	8783.40	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of the license package for additional 1000 elements of the security system integration system (compatible with the planned security system in the central station - ownership ofthe ISR)	pcs	8	3,619.67	28957.36	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of the extension of license package highly sophisticated system for managing and safe operation of alarm systems, access control and fire alarm systems. Simple integration and configuration of the subsystems through the OPC standard. Automatization of urgent responses to subsystems' alarms using user defined rules (compatible with planned security system at central station - ownership of ISR)BOSCH BIS-BGEN-B48 i BIS-FALIE-BPA48 # BIS-FACE-BPA48 or equivalent	pcs	0	12,129.91	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	License for Alarm Management Package. Contains message distribution, timer, operators alarms. (compatible with the planned security system at the central station - ownership of the ISR)BOSCH BIS-FGEN-AMPK48 or equivalent	pcs	0	3,071.75	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	License for Access server additional Package. (compatible with the planned security system at the central station - ownership of the ISR)BOSCH BIS-XACE-1MAC48 or equivalent	pcs	0	-	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	License for Cardholder Management Package. (compatible with the planned security system at the central station - ownership of the ISR)BOSCH BIS-FACE-API48 or equivalent	pcs	0	-	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	License for Multi server integration (compatible with the planned security system at the central station - ownership of the ISR)BOSCH BIS-FGEN-MSRV48 or equivalent	pcs	0	-	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	License for basic configuration of interconnection of integration software with video management software. (compatible with the planned security system in the central station - ownership of the ISR) (BIS-SMA- BVMS or equivalent)	pcs	8	2,815.30	22522.40	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of basic configuration of the license package for additional 128 ports of the security systems integration system (compatible with the planned security system at the central station - ownership of the ISR) (BOSCH BIS-SMA-128DR or equivalent)	pcs	8	1,585.89	12687.12	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Additional license for basic configuration of one operator place. (compatible with the planned security system in the central station - ownership of the ISR) (BOSCH BIS-SMA-5CLI or equivalent)	pcs	8	1,303.08	10424.64	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of basic configuration of a license for an additional division of the security system integration system (compatible with the planned security system at the central station - ownership of the ISR) (BOSCH BIS-SMA-1DIV or equivalent)	pcs	35	256.18	8966.30	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of basic configuration of the license package for additional 1000 elements of the security system integration system (compatible with the planned security system in the central station - ownership of the ISR) BIS-SMA-1KP	pcs	44	3,619.67	159265.48	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of basic configuration of extension of highly sophisticated system for managing and safe operation of alarm systems, access control and fire alarm systems. Simple integration and configuration of the subsystems through the OPC standard. Automatization of urgent responses to subsystems' alarms using user defined rules (compatible with planned security system at central station - ownership of ISR)BOSCH BIS-SMA-BAS	BIS-SMA-AUE a BIS-SMA-ACE or equivalent	pcs	8	2,576.90	20615.20	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of basic configuration of License for Alarm Management Package. Contains message distribution, timer, operators alarms (compatible with the planned security system at the central station - ownership of the ISR)BOSCH BIS-SMA-AMPK or equivalent	pcs	8	4,122.01	32976.08	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	License for basic configuration of Access server additional Package. (compatible with the planned security system at the central station - ownership of the ISR)BOSCH BIS-SMA-1MAC or equivalent	pcs	8	390.37	3122.96	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	License for basic configuration of Cardholder Management Package. (compatible with the planned security system at the central station - ownership of the ISR)BOSCH BIS-SMA-ACEAPI or equivalent	pcs	0	-	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	License for basic configuration of Multi server integration (compatible with the planned security system at the central station - ownership of the ISR) BOSCH BIS-SMA-MSRV or equivalent	pcs	8	1,293.11	10344.88	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Video operator equipment. It includes two workstationswith two 32 " monitors for each	set	0	1,000.00	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Proffesional video wall with dedicated controller andeight 55" monitors	set	0	-	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	Server for BIS and database BOSCH MHW-S380RA-SC	set	0	7,681.29	0.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTEGRATION OF SECURITY SYSTEMS	System configuration, issuing of attestation and Commissioning (for the whole section)User training (for the entire section)Designing and preparation of documentation (for the entire section)	set	1	10,000.00	10000.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	SOS SYSTEM	Software that enables control and management of the system on the part of the section. Installation on theworkstation	pcs	4	243.98	975.92	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	SOS SYSTEM	An interface device that allows the workstation to be connected to a common communication networksystem	pcs	4	29.08	116.32	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	SOS SYSTEM	NMS operator equipment. It includes two workstationswith two 32 " monitors for each	set	4	1,000.00	4000.00	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	SOS SYSTEM	Connection of interfaces	pcs	4	29.08	116.32	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	SOS SYSTEM	System configuration, issuing of attestation and Commissioning (for the whole section)User training (for the entire section)Designing and preparation of documentation (for the entire section)	set	1	22,478.22	22478.22	Others	Material
5.6	OPSTA SVESKAENTIRE SECTION	INTRUSION DETECTION SYSTEM	System configuration, issuing of attestation and Commissioning (for the whole section) User training (for the entire section) Designing and preparation of documentation (for the entire section)	set	1	5,000.00	5000.00	Others	Material with service
5.6	OPSTA SVESKAENTIRE SECTION	AUTOMATIC FIRE DETECTION (AFD-FAS)	System configuration, issuing of attestation and Commissioning (for the whole section) User training (for the entire section) Designing and preparation of documentation (for the entire section)	set	1	10,000.00	10000.00	Others	Material with service
5.6	OPSTA SVESKAENTIRE SECTION	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	System configuration, issuing of attestation and Commissioning (for the whole section) User training (for the entire section) Designing and preparation of documentation (for the entire section)	set	1	2,000.00	2000.00	Others	Material with service
5.6	NOVI SAD	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full bullet HD 1080p camera, 1/2.8" CMOS HD 1937 x 1097 (2.12MP) sensor with Automatic varifocal 2.8 to 12 mm lens, high dynamic range (HDR) of 137dB with intelligent dynamic noise suppression (iDNR), 60m viewing distance of IR LED, automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0051 lux in night mode, 0.0225 lux in color mode (30 IRE), 0.0lux with IR LED on, has a mechanical filter for real day / night mode, 1080p HD at 60fps maximum, simultaneous triple streaming (2 x H.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Camera contains Software license for intelligent video analysis for IP cameras with the following functions: The software system reliably detects, tracks, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image. Advanced tasks like multiple line crossing, loitering, crowd density estimation, and people counting are available - fully configurable forensic search; IP67, IK10 impact protection (BOSCH NBE-3503-AL or equivalent)	pcs	69	699.14	48240.66	Others	Material
5.6	NOVI SAD	VIDEO SURVEILLANCE SYSTEM	Pole mount adapter for mounting brackets (BOSCHLTC 9213/01 or equivalent)	pcs	69	68.44	4722.36	Others	Material
5.6	NOVI SAD	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1/2.9" CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3.2 to 10mm with auto focus and iris; WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min. lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode, 5MPat 20fps maximum, simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics. IP66, IK10 impact protection (BOSCH NDE-3503-AL or equivalent)	pcs	31	881.88	27338.28	Others	Material
5.6	NOVI SAD	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris **3-9mm lens**, high dynamic range (HDR) of minimum **120dB** with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	83	1,112.44	92332.52	Others	Material
5.6	NOVI SAD	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-832FHD-WMT or equivalent)	pcs	83	135.53	11248.99	Others	Material
5.6	NOVI SAD	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.19 mm. Possesses the possibility of electronic high-resolution PTZ with the possibility of dividing the circular image into multiple rectangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; IK10 impact protection (BOSCH NUC-52051- F0E or equivalent)	pcs	19	1,073.53	20397.07	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.6	NOVI SAD	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon E5-1650 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras Technical specifications min: 500GB HDD, blue-ray RW, 8GB RAM, Gigabit (10/100/1000 Mbps) LAN,Intel® HD Audio, 2 x USB 3.0, 2 x USB 2.0, power 700W. RAID 0,1 , 5. 1xserial port header. Video outputs: 8GB graphics card with its own memory, it is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse.Operating System: Microsoft Windows 8.1 64 bit. (BOSCH MHW-WZ4G4-HEN4 or equivalent)	pcs	1	1.000 00	1000 00	Others	Material
5.6	NOVI SAD	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S-Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V). BOSCH UML-323-90 or equivalent	pcs	2	2,818 01	5636.02	Others	Material
5.6	NOVI SAD	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	set	1	966 18	966 18	Others	Material
5.6	NOVI SAD	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	9	143 58	1292 22	Others	Material
5.6	NOVI SAD	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card. Intelligent access control for 1 to 4 entrances, 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM, RTC; Pluggable 2 GB compact flash; Battery for SRAM and RTC; Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	9	842 72	7584 48	Others	Material
5.6	NOVI SAD	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS BOSCH APS-PBC-60 or equivalent	pcs	9	198 60	1787 40	Others	Material
5.6	NOVI SAD	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	9	28 18	253 62	Others	Material
5.6	NOVI SAD	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting. Current consumption 65 mA/average, 225 mA maximum. IP55 protection level(BOSCH ARD-AYBS0260 or equivalent)	pcs	23	97 96	2253 08	Others	Material
5.6	NOVI SAD	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	23	37 57	864 11	Others	Material
5.6	NOVI SAD	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables, halogen-free,CQR FP2/GR/EOR or equivalent	pcs	23	37 57	864.11	Others	Material
5.6	NOVI SAD	ACCESS CONTROL SYSTEM	Electromagnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	23	120.77	2777.71	Others	Material
5.6	NOVI SAD	ACCESS CONTROL SYSTEM	Installation cable, type:JH(St)H 2x2x0.8	m	700	0 51	357.00	Others	Material
5.6	NOVI SAD	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	700	1.12	784.00	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified materialand works	set	1	136 87	136 87	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	2	303 27	606.54	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate.BOSCH ICP-MAP5000-2 or equivalent	pcs	2	925.47	1850 94	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loop configurations (not on stub configurations) Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent	pcs	2	201 29	402 58	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity.Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio-visual devices. Provides two programmable open-collector outputs BOSCH ICP-MAP0007-2 or equivalent	pcs	2	175 79	351 58	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load.BOSCH IPP-MAP0005-2 or equivalent	pcs	2	331 45	662 90	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	4	122 11	488 44	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA18G or equivalent	pcs	26	66 63	1732 38	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology Automatic environmental noise test, sound check BOSCH DS1108I and ISP-EM55SM-120 orequivalent	pcs	4	90 70	362 80	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply.BOSCH IUI-SIR-ID or equivalent	pcs	10	91 25	912 50	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1.5 mm tamper proof againt opening cover; charging regulation voltage 13.8VDC, noise level 117dBABOSCH IUI-SIR-OD or equivalent	pcs	3	161 03	483 09	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additional power supply of outdoor siren.BOSCH D1222 or equivalent	pcs	3	48.12	144.36	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate.BOSCH IUI-MAP0001-2 or equivalent	pcs	2	378 42	756 84	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Installation cable, type:JH(St)H 3x2x0.8	m	1200	0.87	1040.90	Others	Material
5.6	NOVI SAD	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified materialand works	set	1	370 19	370 19	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Адресибилна противпожарна централа (Avenar8000 Premium или еквивалентно) која поджржава EN54 и VdS стандард, опремљена следећим елементима:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for 12 batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2 media converter with 1 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 2 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstation4 functional modules (LSN 1500A) each for one addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirens	pcs	1	17,078 85	17078 85	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML 0008 A or equivalent)	pcs	2	89 91	179.82	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	12	139 56	1674 72	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Distribution cabinet (PO-ДП) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with two connection and one disconnection module 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, two fuse modules 10x2 10KA / 10A and three mechanical earthing drains and DIN rail	pcs	2	166 40	332 80	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Power supply box, with space for 2 batteries with 40Ah and additional module for monitoring all outputs for power supplies. It connects directly to the loop and serves to power the siren and possible remote control system. It comes with 2 batteries with 12VDC/ 42Ah. FPP - 5000 power supply model (EN 54-4, EN 54-17) with addressable communication module FPP - TI13 for forwarding the fault condition (main power failure, battery error, error of module for power supply, short circuit of output, error of grounding) Bosch or equivalent	pcs	2	2,439 84	4879 68	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel panel (FPE-8000-FMRor equivalent)	pcs	0	931 50	0.00	Others	Material

Volumo	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	350	50.99	17846.50	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	24	81.79	1962.96	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable Fire Detectable Detector in ventilation ducts, with air suction box and metal tube length of 46 cm. The detector includes an isolation switch that in the case of short circuit or open connection ensures smooth operation of the system (faults due to electronic failure, continuous display of sensor dirt during service, fault due to excessive dirt) (FAD-420-HSEN with FAD-425-O-R detector and D344-1.5 hose (45.7 cm long) Bosch or equivalent).	pcs	4	548.96	2195.84	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Line fire detector with controller. Detector includes infrared barriers. The barriers cover the distance from 8m to 100m. The barrier has an active receiver and transmitter, on the both ends there is an air reflector. Reflective prism allows precise detection of smoke particles within a given range of distances. The detector has a controller with LED and LCD display for adjusting up to 2 delectors (adjustable activation thresholds) from one location relatively far from the detector itself, without the need to go directly to the detector itself (FIBERAY 5000, Bosch or equivalent)	pcs	2	1,282.61	2565.22	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point that supports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	78	36.23	2825.94	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard (FMC-210-DM-H-R or equivalent)	pcs	5	84.54	422.70	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	40	38.92	1556.80	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	13	148.71	1933.23	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	38	16.10	611.80	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 for accepting conventional elements. It has a short-circuit isolator. (FLM-420/4-CON-S, Bosch or equivalent)	pcs	6	213.77	1282.62	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting.(FLM-420-RHV-D and FLM-IFB126-S Surface,Bosch or equivalent)	pcs	5	351.34	1756.70	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 1 independently programmable low-voltage relay outputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Comes with box for wall mounting (FLM-420-RLV1-D and FLM-IFB126-S, Surface,Bosch or equivalent)	pcs	5	219.59	1097.95	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 8 independently programmable relay outputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting (FLM-420-RLV8-S, Bosch or equivalent)	pcs	5	236.08	1180.40	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently voltage relay outputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting (FLM-420-I2-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	5	219.59	1097.95	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 8 inputs and 1 low-voltage relay outputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Comes with box for wall mounting (FLM-420-I8R1-S, Bosch or equivalent)	pcs	5	134.19	670.95	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	0	49.00	0.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status, i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature.	pcs	0	45.71	0.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls, ...), with all the necessary material	pcs	10	26.02	260.20	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657 A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	installation cable, type:			-	0.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	7000	0.51	3570.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	1200	1.12	1344.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	600	1.32	792.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- SM FO 4 влакна	m	1500	1.83	2745.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	0	1.83	0.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	1000	2.03	2030.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	2100	0.61	1281.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	3700	0.65	2405.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	8000	0.28	2240.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free,dimensions:			-	0.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	50	3.77	188.51	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) A×B	Vendor	type
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	50	3.77	188.51	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on the concrete ceiling	m	800	15.40	12320.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m²	1	50.00	50.00	Others	Material
5.6	Station building Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	sel	1	574.90	574.90	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable Fire Control Panel (Avenar 2000 Premium or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit: 24 V/5A/USB, CAN, Ethernet interfaces2 10/100BASE-TX ports and all neccessary equipment for conection of central unit to 4 SM FOEthernet port for work stationSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstation- two addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensaddress card that allocates 128 points within the system Include 6 pcs tablets(Huawei Pad or equivalent).	pcs	1	7,416.85	7416.85	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML 0008 A or equivalent)	pcs	2	89.91	179.82	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah.	pcs	2	139.56	279.12	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Distribution cabinet (РО-ДП) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with two connection and one disconnection module 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, two fuse modules 10x2 10KA / 10A and three mechanical earthing drains and DIN rail	pcs	1	166.40	166.40	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0,5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	21	50.99	1070.79	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manuel call point thatsupports EN54 and VdS standard (FMC-210-DM-G- R or equivalent)	pcs	7	61.34	429.38	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard (FMC-210-DM-H-R or equivalent)	pcs	1	84.54	84.54	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard (FNM-320-SRD or equivalent)	pcs	3	38.92	116.76	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	2	148.71	297.42	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	0	12.00	0.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting (FLM-420-RHV-D and FLM-IFB126-S Surface Bosch or equivalent)	pcs	2	351.34	702.68	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls, ...), with all the necessary material	pcs	25	26.02	650.50	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657 A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type			-	0.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	500	0.51	255.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	250	1.12	280.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	150	1.32	198.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0.8		0	1.83	0.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0.8		250	2.03	507.50	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5		2100	0.61	1281.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	1100	0.65	715.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	400	0.28	112.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free,dimensions:			-	0.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on the concrete ceiling	m	90	15.40	1386.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m²	1	50.00	50.00	Others	Material
5.6	ETP Novi Sad	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields ...)	set	1	574.90	574.90	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Subsystem central unit for fire alarming and fire exstinguishing managment with two exstinguishing zones, with possibility of connecting four automatic detector and two manual coll point zones, with relay module for activation of alarm devices for exstinguisihing and other executive functions, including power supply unit and backup batteries for system autonomy , 2x12V, 7,2Ah. Central unit must have VdS attest.	pcs	2	1,101.71	2203.42	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Subsystem central unit for fire alarming and fire exstinguishing managment with one exstinguishing zone, with possibility of connecting two automatic detector and two manual coll point zones, with relay module for activation of alarm devices for exstinguisihing and other executive functions, including power supply unit and backup batteries for system autonomy , 2x12V, 7,2Ah. Central unit must have VdS attest.	pcs	2	1,101.71	2203.42	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Conventional optical smoke detector. Includes mounting base, short-circuit isolator and label.	pcs	16	37.57	601.12	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Manual call point for stopping of the exstinguishing	pcs	4	29.52	118.08	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Manual call point for activation of the exstinguishing	pcs	4	29.52	118.08	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Alarm siren with orange flashlight	pcs	8	73.81	590.48	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Warning iluminated panel with inscription "GAS - LEAVE THE ROOM!" or equivalent	pcs	4	92.59	370.36	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Warning iluminated panel with inscription "GAS - DONOT ENTER!" or equivalent	pcs	4	92.59	370.36	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	4	16.10	64.40	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Magnetic contact for monitoring the fire door status, i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	4	21.47	85.88	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Aspirational smoke detector for computer racks in room with space for two detection modules. It must enable connection of sufficient number of pipes for sampling and conveying air to highly sensitive smoke detectors. Detector module class A. With tree alarm levels (info, pre-alarm, alarm) for each detector, LED detector status indicator, fault state indicator and power state indicator, max sensitivity 0.005% (light obscuration/m). It must perform constant monitoring of flow trough pipes thus controlling the state of sampling pipes and cleanness of the sampling holes. The fan should have a min. 2 speeds. With LAN network card, integrated memory for incident storage. Comes with smoke detectors, filter modules, suction tubes, knees, suction set and other necessary equipment. The detector should meet EN54-20 class A, B C and have VdS attestation. (Titanus PRO SENSE 2/ net (TP-5), Wagner or equivalent)	pcs	2	4,406.83	8813.66	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Cabinet for powering the aspiration detector, in accordance with EN54. Temperature and time controlled battery charging process. Outputs with fuses. The cabinet contains all necessary travois, power units, automatic fuses, relay cards, input- output modules, beteries ... Kit with accessories for connecting equipment and wall mounting. Powering process overseen by system's central unit via dedicated addressable modules in the loop. (BOSCH FPP-5000 or equivalent)	pcs	1	1,054.74	1054.74	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Installation cable, type:			-	0.00	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- J-H(St)H 2x2x0,8	m	200	0.51	102.00	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- JH(St)H 5x2x0.8	m	60	1.12	67.20	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- NHXHX 3x1,5 FE180/E30	m	30	1.12	33.60	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- NHXHX 3x1,5 FE180/E90	m	80	1.32	105.60	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- JE-H(St)H /FE180/E90 2x2x0,8	m	110	1.83	201.30	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø40	m	20	0.99	19.80	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø36	m	300	0.65	195.00	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø16	m	200	0.28	56.00	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m²	8	50.00	400.00	Others	Material
5.6	ETP Novi Sad	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Small sundry installation Material(truss screws, U-clamps, expansion shields ...)	set	1	203.97	203.97	Others	Material
5.6	ETP Novi Sad	SOS SYSTEM	The central panel with the following functions: reception and light-sound call presentation, quitting calls and conducting all-call protocols, connecting to the Ethernet network. Completed with power supply unit and all mounting equipment.	pcs	1	551.53	551.53	Others	Material
5.6	ETP Novi Sad	SOS SYSTEM	A call-quit combination device. It has the following functions: reception of information from the call pushbuttons, transmission of information to the central panel, call termination. Comes complete with all mounting equipment. (PRK 2040 or equivalent)	pcs	3	92.59	277.77	Others	Material
5.6	ETP Novi Sad	SOS SYSTEM	Room signal light, two-colored, has a light call presentation function. (SSL 2002 or equivalent)	pcs	3	29.52	88.56	Others	Material
5.6	ETP Novi Sad	SOS SYSTEM	SOS pushbutton for mounting next to the toilet in restroom, together with the mounting kit.	pcs	3	20.13	60.39	Others	Material
5.6	ETP Novi Sad	SOS SYSTEM	Distribution box equipped with serial terminals forparallel separation of the installation without halogen elements	pcs	3	37.57	112.71	Others	Material
5.6	ETP Novi Sad	SOS SYSTEM	Installation cable type:			-	0.00	Others	Material
5.6	ETP Novi Sad	SOS SYSTEM	JH(St)H 3x2x0.8	m	150	0.71	106.50	Others	Material
5.6	ETP Novi Sad	SOS SYSTEM	JH(St)H 2x2x0.6	m	80	0.61	48.80	Others	Material
5.6	ETP Novi Sad	SOS SYSTEM	Small sundry items and other unspecified materialand works	set	1	67.10	67.10	Others	Material

Volumo	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ETP Novi Sad	VIDEO SURVEILLANCE SYSTEM	Network storage device based on the iSCSI interface. Adjustable hardware protection (RAID-5 or RAID-6) Optimized for 24/7 work, certified by the video management software manufacturer. Redundant power (hot-swapp). Minimum two network interfaces (10GB per interface), minimum flow 600Mbs. Dual controller systems the iSCSI ports with thesame number are tied together for redundancy purpose, while one of the ports is a fail-back path for an iSCSI port on the other controller.Storage space: 48TB installed Installation Rack cabinet(BOSCH DSA-N2C8X4-12AT or equivalent)	pcs	18	20,079.00	361422.00	Others	Material
5.6	ETP Novi Sad	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon W-2123 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras. Technical specifications min: 500GB HDD, 16GB DDR4 RAM, Nivada Quadro RTX 4000 graphics card, Gigabit (10/100/1000 Mbps) LAN, power 750W. It is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse. Operating System: Microsoft Windows 10 Proffesional 64 bit. (BOSCH MHW-WZ4G4-HEN4 or equivalent)	pcs	2	1,000.00	2000.00	Others	Material
5.6	ETP Novi Sad	VIDEO SURVEILLANCE SYSTEM	Professional monitor for video surveillance systems type LED / Diagonal 42 "Wide / Resolution 1920x1080 Full HD / aspect ratio 16: 9 / 8ms response / Contrast 4000: 1 (static) / Brightness 250cd / m² / Refresh 60Hz / Viewing Angle 178 ° (H.) Connectors DVI-D, VGA, HDMI, S-video, CVBS / Additional functions: cable management, VESA standard for wall mounting (400mm x 400mm) Mounting on a panel or wall (BOSCH UMI-423-90 or equivalent)	pcs	4	4,159.92	16639.68	Others	Material
5.6	ETP Novi Sad	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S-Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V). BOSCH UML-323-90 or equivalent	pcs	4	2,818.01	11272.04	Others	Material
5.6	ETP Novi Sad	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	set	1	966.18	966.18	Others	Material
5.6	ETP Novi Sad	INTEGRATION OF SECURITY SYSTEMS	Client video monitoring work station based on Intel® Core ™ Xeon W-2123 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, 16GB DDR4 RAM, Nivada Quadro RTX 4000 graphics card, Gigabit (10/100/1000 Mbps) LAN, power 750W. It is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse. Operating System: Microsoft Windows 10 Proffesional 64 bit.(BOSCH MHW-WZ4G4-HEN4 or equivalent)	pcs	1	1,000.00	1000.00	Others	Material
5.6	ETP Novi Sad	INTEGRATION OF SECURITY SYSTEMS	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S-Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V). BOSCH UML-323-90 or equivalent	pcs	2	2,818.01	5636.02	Others	Material
5.6	ETP Novi Sad	INTEGRATION OF SECURITY SYSTEMS	Parallel panel (FPE-8000-FMRor equivalent)	pcs	1	1,249.99	1249.99	Others	Material
5.6	ETP Novi Sad	INTEGRATION OF SECURITY SYSTEMS	- system cable for parallel panel	m	30	3.22	96.60	Others	Material
5.6	Sajlovo	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1 / 2.9 "CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3,2 to 10mm with auto focus and iris. WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min. lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode, 5MPat 20fps maximum, simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics. IP66, IK10 impact protection (BOSCH NDE-3503-AI, Is equivalent)	pcs	3	881.88	2645.64	Others	Material
5.6	Sajlovo	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens, high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	6	1,112.44	6674.64	Others	Material
5.6	Sajlovo	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-832FHD-WMT or equivalent)	pcs	6	135.53	813.18	Others	Material
5.6	Sajlovo	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.19 mm. Possesses the possibility of electronic high-resolution PTZ with the possibility of dividing the circular image into multiple rectangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB, IK10 impact protection (BOSCH NUC-52051-F0E or equivalent)	pcs	2	547.50	1095.00	Others	Material
5.6	Sajlovo	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon E5-1650 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, blue-ray RW, 8GB RAM, Gigabit (10/100/1000 Mbps) LAN,Intel® HD Audio, 2 x USB 3.0, 2 x USB 2.0, power 700W, RAID 0,1 , 5, 1xserial port header .Video outputs: 8GB graphics card with its own memory, it is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse.Operating System: Microsoft Windows 8.1 64 bit. (BOSCH MHW-WZ4R4-EEUK or equivalent)	pcs	1	1,000.00	1000.00	Others	Material
5.6	Sajlovo	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V).BOSCH UML-323-90 or equivalent	pcs	2	2,818.01	5636.02	Others	Material
5.6	Sajlovo	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	set	1	966.18	966.18	Others	Material
5.6	Sajlovo	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	3	143.58	430.74	Others	Material
5.6	Sajlovo	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card, Intelligent access control for 1 to 4 entrances, 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM,RTC, Pluggable 2 GB compact flash, Battery for SRAM and RTC, Address can be set via DIP switches, 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	3	842.72	2528.16	Others	Material
5.6	Sajlovo	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS BOSCH APS-PBC-60 or equivalent	pcs	3	198.60	595.80	Others	Material
5.6	Sajlovo	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	6	28.18	169.08	Others	Material
5.6	Sajlovo	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting. Current consumption 65 mA/average, 225 mA maximum; IP55 protection level(BOSCH ARD-AYBS6260 or equivalent)	pcs	4	97.96	391.84	Others	Material
5.6	Sajlovo	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	4	37.57	150.28	Others	Material
5.6	Sajlovo	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables, halogen-free CQR FP2/GR/EDR or equivalent	pcs	4	37.57	150.28	Others	Material
5.6	Sajlovo	ACCESS CONTROL SYSTEM	Electromagnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	4	120.77	483.08	Others	Material
5.6	Sajlovo	ACCESS CONTROL SYSTEM	Installation cable, type:JH(St)H 2x2x0.8	m	200	0.51	102.00	Others	Material
5.6	Sajlovo	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	200	1.12	224.00	Others	Material
5.6	Sajlovo	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified materialand works	sel	1	136.87	136.87	Others	Material
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303.27	303.27	Others	Material
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate.BOSCH ICP-MAP5000-2 or equivalent	pcs	1	925.47	925.47	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loopconfigurations (not on stub configurations). Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent	pcs	1	201.29	201.29	Others	Material
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio- visual devices. Provides two programmable open-collector outputs BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175.79	175.79	Others	Material
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load BOSCH IPP-MAP0005-2 or equivalent	pcs	1	331.45	331.45	Others	Material
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA18G or equivalent	pcs	7	66.63	466.41	Others	Material
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology Automatic environmental noise test, sound check BOSCH DS1108I and ISP-EM55SM-120 orequivalent	pcs	9	90.70	816.30	Others	Material
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply.BOSCH IUI-SIR-ID or equivalent	pcs	2	91.25	182.50	Others	Material
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1.5 mm tamper proof againt opening cover, charging regulation voltage 13.8VDC, noise level 117dBA BOSCH IUI-SIR-OD or equivalent	pcs	3	161.03	483.09	Others	Material
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additional power supply of outdoor siren BOSCH D1222 or equivalent	pcs	6	48.12	288.72	Others	Material
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate BOSCH IUI-MAP0001-2 or equivalent	pcs	4	378.42	1513.68	Others	Material
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	Installation cable, type JH(St)H 3x2x0.8	m	700	0.87	607.19	Others	Material
5.6	Sajlovo	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified materialand works	set	1	370.19	370.19	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium Bosch or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbrecket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2 media converte with 2 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring softwere by connecting to OPCinterface module for connecting to the workstation- two addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensenabies allocation of 128 points within the system	pcs	1	7,416.85	7416.85	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	1	89.91	89.91	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	4	139.56	558.24	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Distribution cabinet (PO-ДП) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with two connection and one disconnection module 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, two fuse modules 10x2 10KA / 10A and three mechanical earthing drains and DIN rail	pcs	1	166.40	166.40	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	22	50.99	1121.78	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	3	81.79	245.37	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point thatsupports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	5	36.23	181.15	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	3	84.54	253.62	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	3	38.92	116.76	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standerd. IP66 (FNM-320-SRD or equivalent)	pcs	3	148.71	446.13	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	11	16.10	177.10	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standerd (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Melhod of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	23	26.02	598.46	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657.A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	310	0.51	158.10	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	250	1.12	280.00	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	400	1.32	528.00	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0.8	m	0	1.83	0.00	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0.8	m	0	2.03	0.00	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	1700	0.61	1037.00	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	900	0.65	585.00	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	300	0.28	84.00	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free, dimensions:			-	0.00	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on theconcrete ceiling	m	50	15.40	770.00	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation	m²	1	50.00	50.00	Others	Material
5.6	Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	574.90	574.90	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Distribution cabinet (PO-ДП) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with two connection and one disconnection module 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, two fuse modules 10x2 10KA / 10A and three mechanical earthing drains and DIN rail	pcs	1	166.40	166.40	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialler (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	8	50.99	407.92	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	2	81.79	163.58	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point that supports EN54 and VdS standard (FMC-210-DM-G-Ror equivalent)	pcs	4	36.23	144.92	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	1	84.54	84.54	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	2	38.92	77.84	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	2	148.71	297.42	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	0	12.00	0.00	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	12	26.02	312.24	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	150	0.51	76.50	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	200	1.12	224.00	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	100	1.32	132.00	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	0	1.83	0.00	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	0	2.03	0.00	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	500	0.61	305.00	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	400	0.65	260.00	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	300	0.28	84.00	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free,dimensions:			-	0.00	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m²	1	50.00	50.00	Others	Material
5.6	Old Sajlovo	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expension shields ...)	set	1	574.90	574.90	Others	Material
5.6	Rumenka	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1 / 2.9" CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3.2 to 10mm with auto focus and iris, WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min. lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode, 5MPat 20fps maximum, simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics, IP66, IK10 impact protection (BOSCH NDE-3503-AI, is equivalent)	pcs	3	881.88	2645.64	Others	Material
5.6	Rumenka	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens, high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	6	1,112.44	6674.64	Others	Material
5.6	Rumenka	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-832FHD-WMT or equivalent)	pcs	6	135.53	813.18	Others	Material
5.6	Rumenka	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.19 mm. Possesses the possibility of electronic high-resolution PTZ with the possibility of dividing the circular image into multiple reclangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; IK10 impact protection (BOSCH NUC-52051-F0E or equivalent)	pcs	2	547.50	1095.00	Others	Material
5.6	Rumenka	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon E5-1650 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, blue-ray RW, 8GB RAM, Gigabit (10/100/1000 Mbps) LAN,Intel® HD Audio, 2 x USB 3.0, 2 x USB 2.0, power 700W, RAID 0,1 , 5, 1xserial port header. Video outputs: 8GB graphics card with its own memory, it is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse.Operating System: Microsoft Windows 8.1 64 bit. (BOSCH MHW-WZ4R4-EEUK or equivalent)	pcs	1	1,000.00	1000.00	Others	Material
5.6	Rumenka	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V).BOSCH UML-323-90 or equivalent	pcs	2	2.818.01	5636.02	Others	Material
5.6	Rumenka	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	966.18	966.18	Others	Material
5.6	Rumenka	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	3	143.58	430.74	Others	Material
5.6	Rumenka	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card. Intelligent access control for 1 to 4 entrances; 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM,RTC; Pluggable 2 GB compact flash; Battery for SRAM and RTC; Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	3	842.72	2528.16	Others	Material
5.6	Rumenka	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS.BOSCH APS-PBC-60 or equivalent	pcs	3	198.60	595.80	Others	Material
5.6	Rumenka	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	6	28.18	169.08	Others	Material
5.6	Rumenka	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display.Plastic-coated, for indoor and outdoor mounting. Current consumption 65 mA/everage, 225 mA maximum; IP55 protection level (BOSCH ARD-AYBS6260 or equivalent)	pcs	4	97.96	391.84	Others	Material
5.6	Rumenka	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	4	37.57	150.28	Others	Material
5.6	Rumenka	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables, halogen-free CQR FP2/GR/EDR or equivalent	pcs	4	37.57	150.28	Others	Material
5.6	Rumenka	ACCESS CONTROL SYSTEM	Electromagnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	4	120.77	483.08	Others	Material
5.6	Rumenka	ACCESS CONTROL SYSTEM	Installation cable, type:JH(St)H 2x2x0.8	m	200	0.51	102.00	Others	Material
5.6	Rumenka	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	200	1.12	224.00	Others	Material
5.6	Rumenka	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	136.87	136.87	Others	Material
5.6	Rumenka	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303.27	303.27	Others	Material
5.6	Rumenka	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate.BOSCH ICP-MAP5000-2 or equivalent	pcs	1	925.47	925.47	Others	Material
5.6	Rumenka	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loopconfigurations (not on stub configurations). Provides two auxiliary power outputs (500 mA each).BOSCH ICP-MAP0010 or equivalent	pcs	1	201.29	201.29	Others	Material
5.6	Rumenka	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity.Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio- visual devices. Provides two programmable open-collector outputs.BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175.79	175.79	Others	Material
5.6	Rumenka	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load.BOSCH IPP-MAP0005-2 or equivalent.	pcs	1	331.45	331.45	Others	Material
5.6	Rumenka	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material
5.6	Rumenka	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA18G or equivalent	pcs	7	66.63	466.41	Others	Material
5.6	Rumenka	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology.Automatic environmental noise test, sound check.BOSCH DS1108I and ISP-EM65SM-120 or equivalent	pcs	9	90.70	816.30	Others	Material
5.6	Rumenka	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply.BOSCH IUI-SIR-ID or equivalent	pcs	2	91.25	182.50	Others	Material
5.6	Rumenka	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1.5 mm tamper proof againt opening cover; charging regulation voltage 13.8VDC; noise level 117dBA.BOSCH IUI-SIR-OD or equivalent	pcs	3	161.03	483.09	Others	Material
5.6	Rumenka	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additional power supply of outdoor siren.BOSCH D1222 or equivalent	pcs	6	48.12	288.72	Others	Material

Volumo	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vundor	type
5.6	Rumenka	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate BOSCH ILU-MAP0001-2 or equivalent	pcs	4	378.42	1513.68	Others	Material
5.6	Rumenka	INTRUSION DETECTION SYSTEM	Installation cable, type JH(St)H 3x2x0,8	m	700	0.87	607.19	Others	Material
5.6	Rumenka	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	370.19	370.19	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium Bosch or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2x media converter with 2 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstation- two addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensenables allocation of 128 points within the system	pcs	1	7,416.85	7416.85	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	1	89.91	89.91	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	4	139.56	558.24	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	22	50.99	1121.78	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	3	81.79	245.37	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point thatsupports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	5	36.23	181.15	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	3	84.54	253.62	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	3	38.92	116.76	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	3	148.71	446.13	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	11	16.10	177.10	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls, ...), with all the necessary material	pcs	23	26.02	598.46	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657 A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	310	0.51	158.10	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1 5 FE180/E30	m	250	1.12	280.00	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	400	1.32	528.00	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	0	1.83	0.00	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	0	2.03	0.00	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	1700	0.61	1037.00	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fillings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dielzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	900	0.65	585.00	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	300	0.28	84.00	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free, dimensions:			-	0.00	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on theconcrete ceiling	m	50	15.40	770.00	Others	Material

Volume	Site	System	Item Description	Jed. mera	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation	m^2	1	50.00	50.00	Others	Material
5.6	Rumenka	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields ..)	set	1	574.90	574.90	Others	Material
5.6	KISAČ	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full bullet HD 1080p camera, 1/2.8 "CMOS HD 1937 x 1097 (2.12MP) sensor with Automatic Varifocal 2.8 to 12 mm lens, high dynamic range (HDR) of 137dB with intelligent dynamic noise suppression (iDNR), 60m viewing distance of IR LED, automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0051 lux in night mode, 0.0225 lux in color mode (30 IRE), 0.0lux with IR LED on, has a mechanical filter for real day / night mode, 1080p HD at 60fps maximum, simultaneous triple streaming (2 x H.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Camera contains Software license for intelligent video analysis for IP cameras with the following functions: The software system reliably detects, tracks, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image. Advanced tasks like multiple line crossing, loitering, crowd density estimation, and people counting are available - fully configurable forensic search; IP67, IK10 impact protection (BOSCH NBE-6502-AL or equivalent)	pcs	12	699.14	8389.68	Others	Material
5.6	KISAČ	VIDEO SURVEILLANCE SYSTEM	Pole mount adapter for mounting brackets (BOSCHLTC 9213/01 or equivalent)	pcs	12	68.44	821.28	Others	Material
5.6	KISAČ	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1 / 2.9" CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3,2 to 10mm with auto focus and iris; WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min. lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode; 5MPet 20fps maximum, simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics, IP66, IK10 impact protection (BOSCH NDE-3503-AL is equivalent)	pcs	3	881.88	2645.64	Others	Material
5.6	KISAČ	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens, high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	40	1,112.44	44497.60	Others	Material
5.6	KISAČ	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-832FHD-WMT or equivalent)	pcs	8	135.53	1084.24	Others	Material
5.6	KISAČ	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.19 mm. Possesses the possibility of electronic high-resolution PTZ with the possibility of dividing the circular image into multiple reclangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; IK10 impact protection (BOSCH NUC-52051-F0E or equivalent)	pcs	6	547.50	3285.00	Others	Material
5.6	KISAČ	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon E5-1650 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, blue-ray RW, 8GB RAM, Gigabit (10/100/1000 Mbps) LAN,Intel® HD Audio, 2 x USB 3.0, 2 x USB 2.0, power 700W, RAID 0,1 , 5, 1xserial port header. Video outputs: 8GB graphics card with its own memory, it is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse.Operating System: Microsoft Windows 8.1 64 bit. (BOSCH MHW-WZ4R4-EEUK or equivalent)	pcs	1	1,000.00	1000.00	Others	Material
5.6	KISAČ	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output; high contrast 3,000: 1, 350 cd / m2 brightness; 178 ° viewing angle (H / V) BOSCH UML-323-90 or equivalent	pcs	2	2,818.01	5636.02	Others	Material
5.6	KISAČ	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	966.18	966.18	Others	Material
5.6	KISAČ	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	4	143.58	574.32	Others	Material
5.6	KISAČ	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card. Intelligent access control for 1 to 4 entrances; 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM,RTC; Pluggable 2 GB compact flash; Battery for SRAM and RTC; Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	4	842.72	3370.88	Others	Material
5.6	KISAČ	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS.BOSCH APS-PBC-60 or equivalent	pcs	4	198.60	794.40	Others	Material
5.6	KISAČ	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	8	28.16	225.44	Others	Material
5.6	KISAČ	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting. Current consumption 65 mA/average, 225 mA maximum; IP55 protection level (BOSCH ARD-AYBS6260 or equivalent)	pcs	5	97.96	489.80	Others	Material
5.6	KISAČ	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	5	37.57	187.85	Others	Material
5.6	KISAČ	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables, halogen-free CQR FP2/GR/EDR or equivalent	pcs	5	37.57	187.85	Others	Material
5.6	KISAČ	ACCESS CONTROL SYSTEM	Electromagnetic door holder. 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	5	120.77	603.85	Others	Material
5.6	KISAČ	ACCESS CONTROL SYSTEM	installation cable, type:JH(St)H 2x2x0.8	m	200	0.51	102.00	Others	Material
5.6	KISAČ	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	250	1.12	280.00	Others	Material
5.6	KISAČ	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	136.87	136.87	Others	Material
5.6	KISAČ	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303.27	303.27	Others	Material
5.6	KISAČ	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate.BOSCH ICP-MAP5000-2 or equivalent	pcs	1	925.47	925.47	Others	Material
5.6	KISAČ	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loopconfigurations (not on stub configurations) Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent	pcs	1	201.29	201.29	Others	Material
5.6	KISAČ	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity.Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio- visual devices. Provides two programmable open-collector outputs.BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175.79	175.79	Others	Material
5.6	KISAČ	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load.BOSCH IPP-MAP0005-2 or equivalent	pcs	1	331.45	331.45	Others	Material
5.6	KISAČ	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material
5.6	KISAČ	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA18G or equivalent	pcs	10	66.63	666.30	Others	Material
5.6	KISAČ	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology. Automatic environmental noise test, sound check.BOSCH DS1109II and ISP-EM55SM-120 or equivalent	pcs	10	90.70	907.00	Others	Material

Volumo	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	KISAČ	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply.BOSCH IUI-SIR-ID or equivalent	pcs	2	91.25	182.50	Others	Material
5.6	KISAČ	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1,5 mm tamper proof againt opening cover, charging regulation voltage 13,8VDC, noise level 117dBA BOSCH IUI-SIR-OD or equivalent	pcs	2	161.03	322.06	Others	Material
5.6	KISAČ	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additionel power supply of outdoor siren.BOSCH D1222 or equivalent	pcs	4	48.12	192.48	Others	Material
5.6	KISAČ	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (168 vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate.BOSCH IUI-MAP0001-2 or equivalent	pcs	5	378.42	1892.10	Others	Material
5.6	KISAČ	INTRUSION DETECTION SYSTEM	Installation cable, type:JH(St)H 3x2x0.8	m	750	0.87	650.66	Others	Material
5.6	KISAČ	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified Materialandworks	sel	1	370.19	370.19	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium Bosch or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5A/USB, CAN, Ethernet interfaces2 x media convertor with 2 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstation- two addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensenables allocation of 128 points within the system	pcs	1	7,416.85	7416.85	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	2	89.91	179.82	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	4	139.56	558.24	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	31	50.99	1580.69	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	3	81.79	245.37	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point thatsupports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	7	36.23	253.61	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	1	84.54	84.54	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	4	38.92	155.68	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	2	148.71	297.42	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	16	16.10	257.60	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status, i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	30	26.02	780.60	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657.A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	installation cable, type:			-	0.00	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	360	0.51	183.60	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	250	1.12	280.00	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	400	1.32	528.00	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0.8	m	0	1.83	0.00	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	0	2.03	0.00	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	2100	0.61	1281.00	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building). (Dietzel Univoll FX) or equivalent. Inner diemeter:			-	0.00	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	800	0.65	520.00	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	500	0.28	140.00	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free, dimensions:			-	0.00	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on theconcrete ceiling	m	100	15.40	1540.00	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m²	1	50.00	50.00	Others	Material
5.6	KISAČ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields ..)	set	1	574.90	574.90	Others	Material
5.6	STEPANOVIĆEVO	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full outlet HD 1080p camera, 1/2.8 "CMOS HD 1937 x 1097 (2.12MP) sensor with Automatic Varifocal 2.8 to 12 mm lens, high dynamic range (HDR) of 137dB with intelligent dynamic noise suppression (iDNR), 60m viewing distance of IR LED, automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0051 lux in night mode, 0.0225 lux in color mode (30 IRE), 0.0lux with IR LED on, has a mechanical filter for real day / night mode, 1080p HD at 60fps maximum, simultaneous triple streaming (2 x H.265 Main Profile and 1 x M-JPEG); support for local recording on a microSD memory card up to 2TB; Camera contains Software license for intelligent video analysis for IP cameras with the following functions: The software system reliably detects, tracks, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image. Advanced tasks like multiple line crossing, loitering, crowd density estimation, and people counting are available - fully configurable forensic search; IP67, IK10 impact protection (BOSCH NBE-6503-AL or equivalent)	pcs	12	699.14	8389.68	Others	Material
5.6	STEPANOVIĆEVO	VIDEO SURVEILLANCE SYSTEM	Pole mount adapter for mounting brackets (BOSCHLTC 9213/01 or equivalent)	pcs	12	68.44	821.28	Others	Material
5.6	STEPANOVIĆEVO	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1 / 2.9" CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3.2 to 10mm with auto focus and iris, WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min. lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode, 5MPat 20fps maximum, simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics, IP66, IK10 impact protection (BOSCH NDE-3502-AL or equivalent)	pcs	3	881.88	2645.64	Others	Material
5.6	STEPANOVIĆEVO	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens, high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	45	1,112.44	50059.80	Others	Material
5.6	STEPANOVIĆEVO	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-832FHD-WMT or equivalent)	pcs	7	135.53	948.71	Others	Material
5.6	STEPANOVIĆEVO	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.19 mm. Possesses the possibility of electronic high-resolution PTZ with the possibility of dividing the circular image into multiple rectangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB, iK10 impact protection (BOSCH NUC-52051-F0E or equivalent)	pcs	6	547.50	3285.00	Others	Material
5.6	STEPANOVIĆEVO	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon E5-1650 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, blue-ray RW, 8GB RAM, Gigabit (10/100/1000 Mbps) LAN,Intel® HD Audio, 2 x USB 3.0, 2 x USB 2.0, power 700W, RAID 0,1 , 5, 1xserial port header. Video outputs: 8GB graphics card with its own memory, it is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse.Operating System: Microsoft Windows 8.1 64 bit. (BOSCH MHW-WZ4R4-EEUK or equivalent)	pcs	1	1,000.00	1000.00	Others	Material
5.6	STEPANOVIĆEVO	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 " viewing angle (H / V).BOSCH UML-323-90 or equivalent	pcs	2	2,818.01	5636.02	Others	Material
5.6	STEPANOVIĆEVO	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	966.18	966.18	Others	Material
5.6	STEPANOVIĆEVO	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	3	143.58	430.74	Others	Material
5.6	STEPANOVIĆEVO	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card. Intelligent access control for 1 to 4 entrances; 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM,RTC; Pluggable 2 GB compact flash; Battery for SRAM and RTC; Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	3	842.72	2528.16	Others	Material
5.6	STEPANOVIĆEVO	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS.BOSCH APS-PBC-60 or equivalent	pcs	3	198.60	595.80	Others	Material
5.6	STEPANOVIĆEVO	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	6	28.18	169.08	Others	Material
5.6	STEPANOVIĆEVO	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting. Current consumption 65 mA/average, 225 mA maximum; IP55 protection level (BOSCH ARD-AYBS6260 or equivalent)	pcs	4	97.96	391.84	Others	Material
5.6	STEPANOVIĆEVO	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	4	37.57	150.28	Others	Material
5.6	STEPANOVICEVO	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables, halogen-free CQR EP2/GR/EDR or equivalent	pcs	4	37.57	150.28	Others	Material
5.6	STEPANOVIĆEVO	ACCESS CONTROL SYSTEM	Electromagnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	4	120.77	483.08	Others	Material
5.6	STEPANOVIĆEVO	ACCESS CONTROL SYSTEM	Installation cable, type:JH(St)H 2x2x0.8	m	200	0.51	102.00	Others	Material
5.6	STEPANOVICEVO	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	200	1.12	224.00	Others	Material
5.6	STEPANOVIĆEVO	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	136.87	136.87	Others	Material
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303.27	303.27	Others	Material
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate.BOSCH ICP-MAP5000-2 or equivalent	pcs	1	925.47	925.47	Others	Material
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loopconfigurations (not on stub configurations). Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent	pcs	1	201.29	201.29	Others	Material
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio- visual devices. Provides two programmable open-collector outputs.BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175.79	175.79	Others	Material
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load.BOSCH IPP-MAP0005-2 or equivalent.	pcs	1	331.45	331.45	Others	Material
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL 1-WA18G or equivalent	pcs	7	66.63	466.41	Others	Material
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology Automatic environmental noise test, sound check BOSCH DS1108I and ISP-EM55SM-120 or equivalent	pcs	9	90.70	816.30	Others	Material
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply BOSCH IUI-SIR-ID or equivalent	pcs	2	91.25	182.50	Others	Material
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1.5 mm tamper proof againt opening cover; charging regulation voltage 13.8VDC, noise level 117dBA BOSCH IUI-SIR-OD or equivalent	pcs	3	161.03	483.09	Others	Material
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additionai power supply of outdoor siren BOSCH D1222 or equivalent	pcs	6	48.12	288.72	Others	Material
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate BOSCH IUI-MAP0001-2 or equivalent	pcs	4	378.42	1513.68	Others	Material
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	Installation cable, type:J(H(St)H 3x2x0.8	m	700	0.87	607.19	Others	Material
5.6	STEPANOVIĆEVO	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	370.19	370.19	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium Bosch or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2 x media convertor with 2 10/100BASE-TX ports and all neccessary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstation- two addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensenables allocation of 128 points within the system	pcs	1	7.416.85	7416.85	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	2	89.91	179.82	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah.	pcs	4	139.56	558.24	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD Z10 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	23	50.99	1172.77	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	3	81.79	245.37	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point thatsupports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	6	36.23	217.38	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	1	84.54	84.54	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	3	38.92	116.76	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	3	148.71	446.13	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	12	16.10	193.20	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed. complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	23	26.02	598.46	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657.A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	310	0.51	158.10	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	250	1.12	280.00	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	350	1.32	462.00	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	0	1.83	0.00	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	0	2.03	0.00	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	2000	0.61	1220.00	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building). (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	800	0.65	520.00	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	300	0.28	84.00	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free, dimensions:			-	0.00	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on theconcrete ceiling	m	100	15.40	1540.00	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation	m²	1	50.00	50.00	Others	Material
5.6	STEPANOVIĆEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields ...)	set	1	574.90	574.90	Others	Material
5.6	ZMAJEVO	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full bullet HD 1080p camera, 1/2.8 "CMOS HD 1937 x 1097 (2.12MP) sensor with Automatic Varifocal 2.8 to 12 mm lens, high dynamic range (HDR) of 137dB with intelligent dynamic noise suppression (iDNR), 60m viewing distance of IR LED, automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0051 lux in night mode, 0.0225 lux in color mode (30 IRE), 0.0lux with IR LED on, has a mechanical filler for real day / night mode, 1080p HD at 60fps maximum, simultaneous triple streaming (2 x H.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Camera contains Software license for intelligent video analysis for IP cameras with the following functions: The software system reliably detects, tracks, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image. Advanced tasks like multiple line crossing, loitering, crowd density estimation, and people counting are available - fully configurable forensic search; IP67, IK10 impact protection (BOSCH NBE-6502-AL or equivalent)	pcs	14	699.14	9787.96	Others	Material
5.6	ZMAJEVO	VIDEO SURVEILLANCE SYSTEM	Pole mount adapter for mounting brackets (BOSCH LTC 9213/01 or equivalent)	pcs	14	68.44	958.16	Others	Material
5.6	ZMAJEVO	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1 / 2.9" CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3.2 to 10mm with auto focus and iris; WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min. lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode; 5MPat 20fps maximum, simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics; IP66, IK10 impact protection (BOSCH NDE- 3503-AL or equivalent)	pcs	3	881.88	2645.64	Others	Material
5.6	ZMAJEVO	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens, high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	43	1,112.44	47834.92	Others	Material
5.6	ZMAJEVO	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-832FHD-WMT or equivalent)	pcs	10	135.53	1355.30	Others	Material
5.6	ZMAJEVO	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.19 mm. Possesses the possibility of electronic high-resolution PTZ with the possibility of dividing the circular image into multiple rectangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; IK10 impact protection (BOSCH NUC-52051-F0E or equivalent)	pcs	6	547.50	3285.00	Others	Material
5.6	ZMAJEVO	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon E5-1650 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, blue-ray RW, 8GB RAM, Gigabit (10/100/1000 Mbps) LAN,Intel® HD Audio, 2 x USB 3.0, 2 x USB 2.0, power 700W, RAID 0,1 , 5, 1xserial port header. Video outputs: 8GB graphics card with its own memory, it is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse Operating System: Microsoft Windows 8.1 64 bit. (BOSCH MHW-WZ4R4-EEUK or equivalent)	pcs	1	1,000.00	1000.00	Others	Material
5.6	ZMAJEVO	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V).BOSCH UML-323-90 or equivalent	pcs	2	2,818.01	5636.02	Others	Material
5.6	ZMAJEVO	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	966.18	966.18	Others	Material
5.6	ZMAJEVO	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	4	143.58	574.32	Others	Material
5.6	ZMAJEVO	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card. Intelligent access control for 1 to 4 entrances; 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM,RTC; Pluggable 2 GB compact flash; Battery for SRAM and RTC; Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	4	842.72	3370.88	Others	Material
5.6	ZMAJEVO	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS.BOSCH APS-PBC-60 or equivalent	pcs	4	198.60	794.40	Others	Material
5.6	ZMAJEVO	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	8	28.18	225.44	Others	Material
5.6	ZMAJEVO	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting. Current consumption 65 mA/average, 225 mA maximum; IP55 protection level (BOSCH ARD-AYBS6260 or equivalent)	pcs	5	97.96	489.80	Others	Material
5.6	ZMAJEVO	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	5	37.57	187.85	Others	Material
5.6	ZMAJEVO	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables; halogen-free CQR FP2/QR/EDR or equivalent.	pcs	5	37.57	187.85	Others	Material
5.6	ZMAJEVO	ACCESS CONTROL SYSTEM	Electromagnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	5	120.77	603.85	Others	Material
5.6	ZMAJEVO	ACCESS CONTROL SYSTEM	installation cable, type:JH(St)H 2x2x0.8	m	250	0.51	127.50	Others	Material
5.6	ZMAJEVO	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	250	1.12	280.00	Others	Material
5.6	ZMAJEVO	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	136.87	136.87	Others	Material
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303.27	303.27	Others	Material
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate.BOSCH ICP-MAP5000-2 or equivalent	pcs	1	925.47	925.47	Others	Material
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loopconfigurations (not on stub configurations). Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent	pcs	1	201.29	201.29	Others	Material
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity.Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio- visual devices. Provides two programmable open-collector outputs.BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175.79	175.79	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent duel battery control. Provides protection of the battery load.BOSCH IPP-MAP0005-2 or equivalent.	pcs	1	331.45	331.45	Others	Material
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA18G or equivalent	pcs	10	66.63	666.30	Others	Material
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology Automatic environmental noise test, sound check BOSCH DS1108I and ISP-EM55SM-120 or equivalent	pcs	10	90.70	907.00	Others	Material
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply.BOSCH IUI-SIR-IO or equivalent	pcs	2	91.25	182.50	Others	Material
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1,5 mm tamper proof againt opening cover; charging regulation voltage 13,8VDC; noise level 117dBA BOSCH IUI-SIR-OD or equivalent	pcs	2	161.03	322.06	Others	Material
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additional power supply of outdoor siren.BOSCH D1222 or equivalent	pcs	4	48.12	192.48	Others	Material
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate.BOSCH IUI-MAP0001-2 or equivalent	pcs	5	378.42	1892.10	Others	Material
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	Installation cable, type JH(St)H 3x2x0.8	m	700	0.87	607.19	Others	Material
5.6	ZMAJEVO	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified Materialandworks	sel	1	370.19	370.19	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium Bosch or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2 x media convertor with 2 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstation- two addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensenables allocation of 128 points within the system	pcs	1	7,416.85	7416.85	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	2	89.91	179.82	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah;	pcs	4	139.56	558.24	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	31	50.99	1580.69	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	3	81.79	245.37	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point thatsupports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	7	36.23	253.61	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	1	84.54	84.54	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	3	38.92	116.76	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	2	148.71	297.42	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	16	16.10	257.60	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature.	pcs	1	61.34	61.34	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls, ...), with all the necessary material	pcs	31	26.02	806.62	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657 A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	360	0.51	183.60	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	250	1.12	280.00	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	400	1.32	528.00	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	0	1.83	0.00	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	0	2.03	0.00	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	2100	0.61	1281.00	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material

Volumo	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	900	0.65	585.00	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	400	0.28	112.00	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free, dimensions:			-	0.00	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on theconcrete ceiling	m	100	15.40	1540.00	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m^2	1	50.00	50.00	Others	Material
5.6	ZMAJEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	574.90	574.90	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full bullet HD 1080p camera; 1/2.8 "CMOS HD 1937 x 1097 (2.12MP) sensor with automatic varifocal 2.8 to 12 mm lens, high dynamic range (HDR) of 137dB with intelligent dynamic noise suppression (iDNR), 60m viewing distance of IR LED, automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0051 lux in night mode, 0.0225 lux in color mode (30 IRE), 0.0lux with IR LED on, has a mechanical filter for real day / night mode, 1080p HD at 60fps maximum, simultaneous triple streaming (2 x H.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Camera contains Software license for intelligent video analysis for IP cameras with the following functions: The software system reliably detects, tracks, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image. Advanced tasks like multiple line crossing, loitering, crowd density estimation, and people counting are available - fully configurable forensic search; IP67, IK10 impact protection (BOSCH NBE-6502-AL or equivalent)	pcs	45	699.14	31461.30	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	Pole mount adapter for mounting brackets (BOSCHLTC 9213/01 or equivalent)	pcs	45	68.44	3079.80	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera; 1 / 2.9" CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3,2 to 10mm with auto focus and iris; WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filler for real day / night mode; 5MPat 20fps maximum, simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics; IP66, IK10 impact protection (BOSCH NDE-3503-AL is equivalent)	pcs	15	881.88	13228.20	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera; 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens, high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	35	1,112.44	38935.40	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-832FHD-WMT or equivalent)	pcs	14	135.53	1897.42	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.19 mm. Possesses the possibility of electronic high-resolution PTZ with the possibility of dividing the circular image into multiple rectangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; IK10 impact protection (BOSCH NUC-52051-F0E or equivalent)	pcs	6	547.50	3285.00	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon E5-1650 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, blue-ray RW, 8GB RAM, Gigabit (10/100/1000 Mbps) LAN,Intel® HD Audio, 2 x USB 3.0, 2 x USB 2.0, power 700W, RAID 0,1 , 5, 1xserial port header. Video outputs: 8GB graphics card with its own memory, it is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse.Operating System: Microsoft Windows 8.1 64 bit. (BOSCH MHW-WZ4R4-EEUK or equivalent)	pcs	1	1,000.00	1000.00	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3.000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V) BOSCH UML-322-90 or equivalent	pcs	2	2,818.01	5636.02	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	set	1	966.18	966.18	Others	Material
5.6	VRBAS	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	5	143.58	717.90	Others	Material
5.6	VRBAS	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card. Intelligent access control for 1 to 4 entrances; 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM,RTC; Pluggable 2 GB compact flash; Battery for SRAM and RTC Address can be set via DIP switches; 8 relay outputs. 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	5	842.72	4213.60	Others	Material
5.6	VRBAS	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS BOSCH APS-PBC-60 or equivalent	pcs	5	198.60	993.00	Others	Material
5.6	VRBAS	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	10	28.18	281.80	Others	Material
5.6	VRBAS	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting. Current consumption65 mA/average, 225 mA maximum; IP55 protection level(BOSCH ARD-AYBS6260 or equivalent)	pcs	6	97.96	587.76	Others	Material
5.6	VRBAS	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	6	37.57	225.42	Others	Material
5.6	VRBAS	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables, halogen-free CQR EP2/GR/EDR or equivalent	pcs	6	37.57	225.42	Others	Material
5.6	VRBAS	ACCESS CONTROL SYSTEM	Electromagnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	6	120.77	724.62	Others	Material
5.6	VRBAS	ACCESS CONTROL SYSTEM	Installation cable, type JH(St)H 2x2x0.8	m	250	0.51	127.50	Others	Material
5.6	VRBAS	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	250	1.12	280.00	Others	Material
5.6	VRBAS	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified materialand works	set	1	136.87	136.87	Others	Material
5.6	VRBAS	INTRUSION DETECTION SYSTEM	Enclosure kit Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303.27	303.27	Others	Material
5.6	VRBAS	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate.BOSCH ICP-MAP5000-2 or equivalent	pcs	1	925.47	925.47	Others	Material
5.6	VRBAS	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loop configurations (not on stub configurations). Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent	pcs	1	201.29	201.29	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	VRBAS	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity.Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio- visual devices. Provides two programmable open-collector outputs.BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175.79	175.79	Others	Material
5.6	VRBAS	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load.BOSCH IPP-MAP0005-2 or equivalent.	pcs	1	331.45	331.45	Others	Material
5.6	VRBAS	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material
5.6	VRBAS	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA18G or equivalent	pcs	10	66.63	666.30	Others	Material
5.6	VRBAS	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology.Automatic environmental noise test, sound check.BOSCH DS1108I and ISP-EM55SM-120 oreguivalent	pcs	17	90.70	1541.90	Others	Material
5.6	VRBAS	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply.BOSCH IUI-SIR-IO or equivalent	pcs	4	91.25	365.00	Others	Material
5.6	VRBAS	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1.5 mm tamper proof againt opening cover; charging regulation voltage 13.6VDC; noise level 117dBABOSCH IUI-SIR-OD or equivalent	pcs	5	161.03	805.15	Others	Material
5.6	VRBAS	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additional power supply of outdoor siren.BOSCH D1222 or equivalent	pcs	5	48.12	240.60	Others	Material
5.6	VRBAS	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate.BOSCH IUI-MAP0001-2 or equivalent	pcs	6	378.42	2270.52	Others	Material
5.6	VRBAS	INTRUSION DETECTION SYSTEM	Installation cable, type:JH(St)H 3x2x0.8	m	1200	0.87	1040.90	Others	Material
5.6	VRBAS	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified materialand works	set	1	370.19	370.19	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2 media converter with 1 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 2 SM FOEthernet port for work stationSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstation- two addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensaddress card that allocates 128 points within the system	pcs	1	7,416.85	7416.85	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	2	89.91	179.82	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	2	139.56	279.12	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel panel (FPE-8000-FMRor equivalent)	pcs	1	1,249.99	1249.99	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Distribution cabinet (РО-ДП) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with two connection and one disconnection module 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, two fuse modules 10x2 10KA / 10A and three mechanical earthing drains and DIN rail	pcs	2	166.40	332.80	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel, it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	87	50.99	4436.13	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	4	81.79	327.16	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point that supports EN54 and VdS standard (FMC-210-DM-G-Ror equivalent)	pcs	10	36.23	362.30	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	3	84.54	253.62	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	5	38.92	194.60	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard, IP66 (FNM-320-SRD or equivalent)	pcs	7	148.71	1040.97	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	45	16.10	724.50	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	57	26.02	1483.14	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657.A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	720	0.51	367.20	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	500	1.12	560.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	450	1.32	594.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	100	1.83	183.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	500	2.03	1015.00	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	2100	0.61	1281.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univoll FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	1200	0.65	780.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	700	0.28	196.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free,dimensions:			-	0.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on theconcrete ceiling	m	100	15.40	1540.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire ber from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m^2	1	50.00	50.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	574.90	574.90	Others	Material
5.6	VRBAS	SOS SYSTEM	The central panel with the following functions: reception and light-sound call presentation, quitting calls and conducting all-call protocols, connecting to the Ethernet network. Completed with power supply unit and all mounting equipment.	pcs	1	551.53	551.53	Others	Material
5.6	VRBAS	SOS SYSTEM	A call-quit combination device. It has the following functions: reception of information from the call pushbuttons, transmission of information to the central panel, call termination. Comes complete with all mounting equipment. (PRK 2040 or equivalent)	pcs	1	92.59	92.59	Others	Material
5.6	VRBAS	SOS SYSTEM	Room signal light, two-colored, has a light call presentation function. (SSL 2002 or equivalent)	pcs	2	29.52	59.04	Others	Material
5.6	VRBAS	SOS SYSTEM	SOS pushbutton for mounting next to the toilet innstroom, together with the mounting kit	pcs	1	20.13	20.13	Others	Material
5.6	VRBAS	SOS SYSTEM	Distribution box equipped with serial terminals for parallel separation of the installation without halogenelements	pcs	2	37.57	75.14	Others	Material
5.6	VRBAS	SOS SYSTEM	Installation cable type:			-	0.00	Others	Material
5.6	VRBAS	SOS SYSTEM	JH(St)H 3x2x0.8	m	50	0.71	35.50	Others	Material
5.6	VRBAS	SOS SYSTEM	JH(St)H 2x2x0.6	m	40	0.61	24.40	Others	Material
5.6	VRBAS	SOS SYSTEM	Small sundry items and other unspecified materialand works	set	1	67.10	67.10	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	Network storage device based on the iSCSI interface. Adjustable hardware protection (RAID-5 or RAID-6) Optimized for 24/7 work, certified by the video management software manufacturer. Redundant power (hot-swapp). Minimum two network interfaces (10GB per interface), minimum flow 600Mbs.Storage space: 48TB installed Installation: Rack cabinet(BOSCH DSA-N2C8X4-12AT or equivalent)	pcs	10	20,079.00	200790.00	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon W-2123 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, 16GB DDR4 RAM, Nivada Quadro RTX 4000 graphics card, Gigabit (10/100/1000 Mbps) LAN, power 750W. It is possible to connect up to 4 monitors simultaneousiy. Others: MiniTower, keyboard, optical mouse.Operating System: Microsoft Windows 10 Proffesional 64 bit (BOSCH MHW-WZ4G4-HEN4 or equivalent)	pcs	2	1,000.00	2000.00	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	Professional monitor for video surveillance systems type LED / Diagonal 42 "Wide / Resolution 1920x1080 Full HD / aspect ratio 16: 9 / 8ms response / Contrast 4000: 1 (static) / Brightness 250cd / m² / Refresh 60Hz / Viewing Angle 178 ° (H) Connectors DVI-D, VGA, HDMI, S-video, CVBS / Additional functions: cable management, VESA standard for wall mounting (400mm x 400mm) Mounting on a panel or wall (BOSCH UML-421-90 or equivalent)	pcs	2	4,159.92	8319.84	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V) BOSCH UML-324-90 or equivalent	pcs	3	1,439.87	4319.61	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	set	1	966.18	966.18	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon W-2123 processor and Microsoft operting system. Technical specifications min: 500GB HDD, 16GB DDR4 RAM, Nivada Quadro P2200 graphics card, Gigabit (10/100/1000 Mbps) LAN, power 750W. It is possible to connect up to 2 monitors simultaneousiy. Others: MiniTower, keyboard, optical mouse. Operating System: Microsoft Windows 10 Proffesional 64 bit (BOSCH MHW-WZ4G4-HEN2 or equivalent)	pcs	1	1,000.00	1000.00	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V) BOSCH UML-323-90 or equivalent	pcs	2	2,818.01	5636.02	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	Parallel fire keypad panel (FPE-8000-FMR or05.06.08.01.08.03equivalent)	pcs	1	1,249.99	1249.99	Others	Material
5.6	VRBAS	VIDEO SURVEILLANCE SYSTEM	- system cable for parallel panel	m	30	3.22	96.60	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium Bosch or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbrackel for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2 x media convertor with 2 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstation- two addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for belteriesmodul for connectig 2 lines of alarm sirensenables allocation of 128 points within the system	pcs	1	7,416.85	7416.85	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	2	89.91	179.82	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	4	139.56	558.24	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Distribution cabinet (PO-ДП) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with two connection and one disconnection module 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, two fuse modules 10x2 10KA / 10A and three mechanical earthing drains and DIN rail	pcs	2	166.40	332.80	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	30	50.99	1529.70	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	2	81.79	163.58	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point that supports EN54 and VdS standard (FMC-210-DM-G-Ror equivalent)	pcs	10	36.23	362.30	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	1	84.54	84.54	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard (FNM-320-SRD or equivalent)	pcs	5	38.92	194.60	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard IP66 (FNM-320-SRD or equivalent)	pcs	4	148.71	594.84	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	11	16.10	177.10	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls, ...), with all the necessary material	pcs	30	26.02	780.60	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657 A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	350	0.51	178.50	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	350	1.12	392.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	400	1.32	528.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	0	1.83	0.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	200	2.03	406.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	1200	0.61	732.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	1000	0.65	650.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	400	0.28	112.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free, dimensions:			-	0.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation	m²	1	50.00	50.00	Others	Material
5.6	VRBAS	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields ...)	set	1	574.90	574.90	Others	Material
5.6	VRBAS	SOS SYSTEM	The central panel with the following functions: reception and light-sound call presentation, quitting calls and conducting all-call protocols, connecting to the Ethernet network. Completed with power supply unit and all mounting equipment.	pcs	1	551.53	551.53	Others	Material
5.6	VRBAS	SOS SYSTEM	A call-quit combination device. It has the following functions: reception of information from the call pushbuttons, transmission of information to the central panel, call termination. Comes complete with all mounting equipment. (PRK 2040 or equivalent)	pcs	1	92.59	92.59	Others	Material
5.6	VRBAS	SOS SYSTEM	Room signal light, two-colored, has a light call presentation function. (SSL 2002 or equivalent)	pcs	2	29.52	59.04	Others	Material
5.6	VRBAS	SOS SYSTEM	SOS pushbutton for mounting next to the toilet inrestroom, together with the mounting kit	pcs	1	20.13	20.13	Others	Material
5.6	VRBAS	SOS SYSTEM	Distribution box equipped with serial terminals for parallel separation of the installation without halogenelements	pcs	2	37.57	75.14	Others	Material
5.6	VRBAS	SOS SYSTEM	Installation cable type:			-	0.00	Others	Material
5.6	VRBAS	SOS SYSTEM	JH(St)H 3x2x0.8	m	50	0.71	35.50	Others	Material
5.6	VRBAS	SOS SYSTEM	JH(St)H 2x2x0.6	m	40	0.61	24.40	Others	Material
5.6	VRBAS	SOS SYSTEM	Small sundry items and other unspecified materialand works	set	1	67.10	67.10	Others	Material
5.6	MALI IDJOŠ	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full bullet HD 1080p camera, 1/2.8" CMOS HD 1937 x 1097 (2.12MP) sensor with Automatic Varifocal 2.8 to 12 mm lens, high dynamic range (HDR) of 137dB with intelligent dynamic noise suppression (iDNR), 60m viewing distance of IR LED, automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0051 lux in night mode, 0.0225 lux in color mode (30 IRE), 0.0lux with IR LED on, has a mechanical filter for real day / night mode, 1080p HD at 60fps maximum, simultaneous triple streaming (2 x H.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Camera contains Software license for intelligent video analysis for IP cameras with the following functions: The software system reliably detects, tracks, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image. Advanced tasks like multiple line crossing, loitering, crowd density estimation, and people counting are available - fully configurable (warning search), IP67, IK10 impact protection (BOSCH NBE-6502-AL or equivalent.)	pcs	13	699.14	9088.82	Others	Material
5.6	MALI IDJOŠ	VIDEO SURVEILLANCE SYSTEM	Pole mount adapter for mounting brackets (BOSCHLTC 9213/01 or equivalent)	pcs	13	68.44	889.72	Others	Material

Volume	Site	System	Item Description	Jed_more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	MALI IDJOŠ	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1/ 2.8" CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3.2 to 10mm with auto focus and iris; WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min. lighting conditions 0.042 lux in night mode, 0,379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode; 5MPat 20fps maximum, simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics, IP66, IK10 impact protection (BOSCH NDE-3503-AL is equivalent)	pcs	3	881.88	2645.64	Others	Material
5.6	MALI IDJOŠ	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens, high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67; IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	44	1,112.44	48947.36	Others	Material
5.6	MALI IDJOŠ	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-832FHD-WMT or equivalent)	pcs	8	135.53	1084.24	Others	Material
5.6	MALI IDJOŠ	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.19 mm. Possesses the possibility of electronic high-resolution PTZ with the possibility of dividing the circular image into multiple rectangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. (K10 impact protection (BOSCH NUC-52051-F0E or equivalent)	pcs	6	547.50	3285.00	Others	Material
5.6	MALI IDJOŠ	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon E5-1650 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, blue-ray RW, 8GB RAM, Gigabit (10/100/1000 Mbps) LAN,Intel® HD Audio, 2 x USB 3.0, 2 x USB 2.0, power 700W, RAID 0,1 , 5, 1xserial port header. Video outputs: 8GB graphics card with its own memory, it is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse.Operating System: Microsoft Windows 8.1 64 bit. (BOSCH MHW-WZ4R4-EEUK or equivalent)	pcs	1	1,000.00	1000.00	Others	Material
5.6	MALI IDJOŠ	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V) BOSCH UML-323-90 or equivalent	pcs	2	2,818.01	5636.02	Others	Material
5.6	MALI IDJOŠ	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	966.18	966.18	Others	Material
5.6	MALI IDJOŠ	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	3	143.58	430.74	Others	Material
5.6	MALI IDJOŠ	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card, intelligent access control for 1 to 4 entrances; 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent. 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM,RTC, Pluggable 2 GB compact flash; Battery for SRAM and RTC; Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level.BOSCH APC-AMC2-4WCF or equivalent	pcs	3	842.72	2528.16	Others	Material
5.6	MALI IDJOŠ	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS.BOSCH APS-PBC-60 or equivalent	pcs	3	198.60	595.80	Others	Material
5.6	MALI IDJOŠ	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	6	28.18	169.08	Others	Material
5.6	MALI IDJOŠ	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting. Current consumption 65 mA/average, 225 mA maximum; IP55 protection level (BOSCH ARD-AYBS6260 or equivalent)	pcs	4	97.96	391.84	Others	Material
5.6	MALI IDJOŠ	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	4	37.57	150.28	Others	Material
5.6	MALI IDJOŠ	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables, halogen-free.CQR FP2/3R/EDR or equivalent	pcs	4	37.57	150.28	Others	Material
5.6	MALI IDJOŠ	ACCESS CONTROL SYSTEM	Electromagnetic door holder. 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	4	120.77	483.08	Others	Material
5.6	MALI IDJOŠ	ACCESS CONTROL SYSTEM	Installation cable, type:JH(St)H 2x2x0.8	m	210	0.51	107.10	Others	Material
5.6	MALI IDJOŠ	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	210	1.12	235.20	Others	Material
5.6	MALI IDJOŠ	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	136.87	136.87	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303.27	303.27	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate.BOSCH ICP-MAP5000-2 or equivalent	pcs	1	925.47	925.47	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loopconfigurations (not on stub configurations). Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent	pcs	1	201.29	201.29	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity.Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio- visual devices. Provides two programmable open-collector outputs.BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175.79	175.79	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load.BOSCH IPP-MAP0005-2 or equivalent	pcs	1	331.45	331.45	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	Battery 12V 42Ah.BOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA18Q or equivalent	pcs	7	66.63	466.41	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology.Automatic environmental noise test, sound check.BOSCH DS1108I and ISP-EM55SM-120 or equivalent	pcs	9	90.70	816.30	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply.BOSCH IUI-SIR-ID or equivalent	pcs	2	91.25	182.50	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1.5 mm tamper proof againt opening cover; charging regulation voltage 13.6VDC, noise level 117dBA.BOSCH IUI-SIR-OD or equivalent	pcs	3	161.03	483.09	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additional power supply of outdoor siren.BOSCH D1222 or equivalent	pcs	6	48.12	288.72	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (168 vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate.BOSCH IUI-MAP0001-2 or equivalent	pcs	4	378.42	1513.68	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	Installation cable, type JH(St)H 3x2x0.8	m	700	0.87	607.19	Others	Material
5.6	MALI IDJOŠ	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	370.19	370.19	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium Bosch or equivalent) that supports EN54 and VdS standard, equipped with the following elements steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2 x media convertor with 2 10/100BASE-TX ports and all neccessary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstation- two addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensenables allocation of 128 points within the system	pcs	1	7,416.85	7416.85	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	2	89.91	179.82	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah.	pcs	4	139.56	558.24	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	23	50.99	1172.77	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	3	81.79	245.37	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point thatsupports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	6	36.23	217.38	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	1	84.54	84.54	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	3	38.92	116.76	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	3	148.71	446.13	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	12	16.10	193.20	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature.	pcs	1	61.34	61.34	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	21	26.02	546.42	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657.A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	310	0.51	158.10	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	300	1.12	336.00	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	400	1.32	528.00	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	0	1.83	0.00	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	0	2.03	0.00	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	2000	0.61	1220.00	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	850	0.65	552.50	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	300	0.28	84.00	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free, dimensions:			-	0.00	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on theconcrete ceiling	m	100	15.40	1540.00	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m^3	1	50.00	50.00	Others	Material
5.6	MALI IDJOŠ	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields ...)	set	1	574.90	574.90	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full Bullet HD 1080p camera. 1/2.8 "CMOS HD 1937 x 1097 (2.12MP) sensor with Automatic Varifocal 2.8 to 12 mm lens, high dynamic range (HDR) of 137dB with intelligent dynamic noise suppression (iDNR), 60m viewing distance of IR LED, automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0051 lux in night mode, 0.0225 lux in color mode (30 IRE), 0.0lux with IR LED on, has a mechanical filter for real day / night mode, 1080p HD at 60fps maximum, simultaneous triple streaming (2 x H.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Camera contains Software license for intelligent video analysis for IP cameras with the following functions: The software system reliably detects, tracks, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image. Advanced tasks like multiple line crossing, loitering, crowd density estimation, and people counting are available - fully configurable forensic search; IP67, IK10 impact protection (BOSCH NDE-6502-AL or equivalent)	pcs	24	699.14	16779.36	Others	Material
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	Pole mount adapter for mounting brackets (BOSCH LTC 0213/01 or equivalent)	pcs	24	68.44	1642.56	Others	Material
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1 / 2.9" CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3.2 to 10mm with auto focus and iris; WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min. lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode; 5MPat 20fps maximum, simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics. IP66, IK10 impact protection (BOSCH NDE-3503-AL Is equivalent)	pcs	9	881.88	7936.92	Others	Material
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens, high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	70	1,112.44	77870.80	Others	Material
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-B32FHD-WMT or equivalent)	pcs	19	135.53	2575.07	Others	Material
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.19 mm. Possesses the possibility of electronic high-resolution PTZ with the possibility of dividing the circular image into multiple rectangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; IK10 impact protection (BOSCH NUC-52051- F0E or equivalent)	pcs	7	1,073.53	7514.71	Others	Material
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Coro ™ Xeon E5-1650 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, blue-ray RW, 8GB RAM, Gigabit (10/100/1000 Mbps) LAN,Intel® HD Audio, 2 x USB 3.0, 2 x USB 2.0, power 700W, RAID 0,1 , 5, 1xserial port header. Video outputs: 8GB graphics card with its own memory, it is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse Operating System: Microsoft Windows 8.1 64 bit. (BOSCH MHW-WZ4R4-EEUK or equivalent)	pcs	1	1,000.00	1000.00	Others	Material
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V) BOSCH UML-323-90 or equivalent	pcs	2	2,818.01	5636.02	Others	Material
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	set	1	966.18	966.18	Others	Material
5.6	BAČKA TOPOLA	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	6	143.58	861.48	Others	Material
5.6	BAČKA TOPOLA	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card, intelligent access control for 1 to 4 entrances, 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM,RTC; Pluggable 2 GB compact flash; Battery for SRAM and RTC, Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	6	842.72	5056.32	Others	Material
5.6	BAČKA TOPOLA	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS.BOSCH APS-PBC-60 or equivalent	pcs	6	198.60	1191.60	Others	Material
5.6	BAČKA TOPOLA	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	12	28.18	338.16	Others	Material
5.6	BAČKA TOPOLA	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display.Plastic-coated, for indoor and outdoor mounting. Current consumption 65 mA/average, 225 mA maximum; IP55 protection level(BOSCH ARD-AYBS6260 or equivalent)	pcs	7	97.96	685.72	Others	Material
5.6	BAČKA TOPOLA	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	7	37.57	262.99	Others	Material
5.6	BAČKA TOPOLA	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel seperation of the system cables, halogen-free CQR FP2/GR/EDR or equivalent	pcs	7	37.57	262.99	Others	Material
5.6	BAČKA TOPOLA	ACCESS CONTROL SYSTEM	Electromegnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	7	120.77	845.39	Others	Material
5.6	BAČKA TOPOLA	ACCESS CONTROL SYSTEM	Installation cable, type:JH(St)H 2x2x0.8	m	300	0.51	153.00	Others	Material
5.6	BAČKA TOPOLA	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	300	1.12	336.00	Others	Material
5.6	BAČKA TOPOLA	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified materialand works	set	1	136.87	136.87	Others	Material
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303.27	303.27	Others	Material
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate BOSCH ICP-MAP5000-2 or equivalent	pcs	1	925.47	925.47	Others	Material
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loop configurations (not on stub configurations). Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent	pcs	1	201.29	201.29	Others	Material
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity.Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio- visual devices. Provides two programmable open-collector outputs.BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175.79	175.79	Others	Material
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load.BOSCH IPP-MAP0005-2 or equivalent	pcs	1	331.45	331.45	Others	Material
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA18G or equivalent	pcs	11	66.63	732.93	Others	Material
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology.Automatic environmental noise test, sound check.BOSCH DS1108I and ISP-EM55SM-120 or equivalent	pcs	13	90.70	1179.10	Others	Material
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply.BOSCH IUI-SIR-ID or equivalent	pcs	4	91.25	365.00	Others	Material
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1,5 mm tamper proof againt opening cover; charging regulation voltage 13.8VDC, noise level 117dBABOSCH IUI-SIR-OD or equivalent	pcs	3	161.03	483.09	Others	Material
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additional power supply of outdoor siren BOSCH D1222 or equivalent	pcs	4	48.12	192.48	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate BOSCH (UI-MAP0001-2 or equivalent	pcs	7	378.42	2648.94	Others	Material
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	Installation cable, type:JH(St)H 3x2x0,8	m	950	0.87	824.05	Others	Material
5.6	BAČKA TOPOLA	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified materialand works	set	1	370.19	370.19	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbrackel for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernel interfaces2 media converter with 1 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 2 SM FOEthernet port for work stationSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstationtwo addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensaddress card that allocates 128 points within the system	pcs	1	7,416.85	7416.85	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	2	89.91	179.82	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	4	139.56	558.24	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel panel (FPE-8000-FMRor equivalent)	pcs	1	1,249.99	1249.99	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Software for complete monitoring and management of the systemfire detection. Can monitor one or moreinetworked panels with up to 2500 address points. Up to 10 simultaneous users. Visualization and obtaining information from each individual addressable point (fire, error, bridging and reset), at the level of the whole facility or each individual floor (FSM-2500 Fire Monitoring System 2500, Bosch or equivalent) (This is not quoted)	pcs	1	19,518.69	19518.69	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Distribution cabinet (РО-ДП) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with two connection and one disconnection module 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, two fuse modules 10x2 10KA / 10A and three mechanical earthing drains and DIN rail	pcs	2	166.40	332.80	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	42	50.99	2141.58	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	4	81.79	327.16	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point thatsupports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	12	36.23	434.76	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	1	84.54	84.54	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	7	38.92	272.44	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	4	148.71	594.84	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	14	16.10	225.40	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	42	26.02	1092.84	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657 A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	450	0.51	229.50	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	450	1.12	504.00	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	500	1.32	660.00	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	150	1.83	274.50	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	200	2.03	406.00	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	2600	0.61	1586.00	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building). (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	1200	0.65	780.00	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	500	0.28	140.00	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free, dimensions:			-	0.00	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on theconcrete ceiling	m	100	15.40	1540.00	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m²	1	50.00	50.00	Others	Material
5.6	BAČKA TOPOLA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	574.90	574.90	Others	Material
5.6	BAČKA TOPOLA	SOS SYSTEM	The central panel with the following functions: reception and light-sound call presentation, quitting calls and conducting all-call protocols, connecting to the Ethernet network. Completed with power supply unit and all mounting equipment.	pcs	1	551.53	551.53	Others	Material
5.6	BAČKA TOPOLA	SOS SYSTEM	A call-quit combination device. It has the following functions: reception of information from the call pushbuttons, transmission of information to the central panel, call termination. Comes complete with all mounting equipment. (PRK 2040 or equivalent)	pcs	1	92.59	92.59	Others	Material
5.6	BAČKA TOPOLA	SOS SYSTEM	Room signal light, two-colored, has a light call presentation function. (SSL 2002 or equivalent)	pcs	2	29.52	59.04	Others	Material
5.6	BAČKA TOPOLA	SOS SYSTEM	SOS pushbutton for mounting next to the toilet inrestroom, together with the mounting kit	pcs	1	20.13	20.13	Others	Material
5.6	BAČKA TOPOLA	SOS SYSTEM	Distribution box equipped with serial terminals forparallel separation of the installation without halogen elements	pcs	2	37.57	75.14	Others	Material
5.6	BAČKA TOPOLA	SOS SYSTEM	Installation cable type:			-	0.00	Others	Material
5.6	BAČKA TOPOLA	SOS SYSTEM	JH(St)H 3x2x0.8	m	50	0.71	35.50	Others	Material
5.6	BAČKA TOPOLA	SOS SYSTEM	JH(St)H 2x2x0.6	m	40	0.61	24.40	Others	Material
5.6	BAČKA TOPOLA	SOS SYSTEM	Small sundry items and other unspecified materialand works	set	1	67.10	67.10	Others	Material
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	Network storage device based on the iSCSI interface. Adjustable hardware protection (RAID-5 or RAID-6) Optimized for 24/7 work, certified by the video management software manufacturer. Redundant power (hot-swapp). Minimum two network interfaces (10GB per interface), minimum flow 600Mbs.Storage space: 48TB installed Installation: Rack cabinet(BOSCH DSA-N2C8X4-12AT or equivalent)	pcs	10	20,079.00	200790.00	Others	Material
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon W-2123 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, 16GB DDR4 RAM, Nivada Quadro RTX 4000 graphics card, Gigabit (10/100/1000 Mbps) LAN, power 750W. It is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse. Operating System: Microsoft Windows 10 Proffesional 64 bit (BOSCH MHW-WZ4G4-HEN1 or equivalent)	pcs	2	1,000.00	2000.00	Others	Material
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	Professional monitor for video surveillance systems type LED / Diagonal 42 "Wide / Resolution 1920x1080 Full HD / aspect ratio 16: 9 / 8ms response / Contrast 4000: 1 (static) / Brightness 250cd / m² / Refresh 60Hz / Viewing Angle 178 ° (H) Connectors DVI-D, VGA, HDMI, S-video, CVBS / Additional functions: cable management, VESA standard for wall mounting (400mm x 400mm) Mounting on a panel or wall (BOSCH UML-423-90 or equivalent)	pcs	2	4,159.92	8319.84	Others	Material
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V) BOSCH UML-323-90 or equivalent	pcs	3	2,818.01	8454.03	Others	Material
5.6	BAČKA TOPOLA	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	set	1	966.18	966.18	Others	Material
5.6	BAČKA TOPOLA	INTEGRATION OF SECURITY SYSTEMS	Client video monitoring work station based on Intel® Core ™ Xeon W-2123 processor and Microsoft operting system. Technical specifications min: 500GB HDD, 16GB DDR4 RAM, Nivada Quadro P2200 graphics card, Gigabit (10/100/1000 Mbps) LAN, power 750W. It is possible to connect up to 2 monitors simultaneously. Others: MiniTower, keyboard, optical mouse. Operating System: Microsoft Windows 10 Proffesional 64 bit (BOSCH MHW-WZ4G4-HEN2 or equivalent)	pcs	1	1,000.00	1000.00	Others	Material
5.6	BAČKA TOPOLA	INTEGRATION OF SECURITY SYSTEMS	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V) BOSCH UML-323-90 or equivalent	pcs	2	2,818.01	5636.02	Others	Material
5.6	BAČKA TOPOLA	INTEGRATION OF SECURITY SYSTEMS	Parallel fire keypad panel (FPE-8000-FMR orequivalent)	pcs	1	1,249.99	1249.99	Others	Material
5.6	BAČKA TOPOLA	INTEGRATION OF SECURITY SYSTEMS	- system cable for parallel panel	m	30	3.22	96.60	Others	Material
5.6	ZEDNIK	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full bullet HD 1080p camera, 1/2.8 "CMOS HD 1937 x 1097 (2.1MP) sensor with Automatic varifocal 2.6 to 12 mm lens, high dynamic range (HDR) of 137dB with intelligent dynamic noise suppression (iDNR), 60m viewing distance of IR LED, automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0051 lux in night mode, 0.0225 lux in color mode (30 IRE), 0.0lux with IR LED on, has a mechanical filter for real day / night mode, 1080p HD at 60fps maximum, simultaneous triple streaming (2 x H.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Camere contains Software license for intelligent video analysis for IP cameras with the following functions: The software system reliably detects, tracks, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image. Advanced tasks like multiple line crossing, loitering, crowd density estimation, and people counting are available - fully configurable forensic search, IP67, IK10 impact protection (BOSCH NBE-6503-AL or equivalent)	pcs	12	699.14	8389.68	Others	Material
5.6	ZEDNIK	VIDEO SURVEILLANCE SYSTEM	Pole mount adapter for mounting brackets (BOSCH LTC 9213/01 or equivalent)	pcs	12	68.44	821.28	Others	Material
5.6	ZEDNIK	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1 / 2.9 "CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3.2 to 10mm with auto focus and iris; WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min. lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode, 5MPat 20fps maximum. simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics, IP66, IK10 impact protection (BOSCH NDE-3503-AL is equivalent)	pcs	3	881.88	2645.64	Others	Material
5.6	ZEDNIK	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens, high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	43	1,112.44	47834.92	Others	Material
5.6	ZEDNIK	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-832FHD-WMT or equivalent)	pcs	8	135.53	1084.24	Others	Material
5.6	ZEDNIK	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.15 mm. Possesses the possibility of electronic high-resolution PTZ with the possibility of dividing the circular image into multiple rectangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H 264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; IK10 impact protection (BOSCH NUC-52051-F0E or equivalent)	pcs	6	547.50	3285.00	Others	Material
5.6	ZEDNIK	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon E5-1650 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, blue-ray RW, 8GB RAM, Gigabit (10/100/1000 Mbps) LAN.Intel® HD Audio, 2 x USB 3.0, 2 x USB 2.0, power 700W, RAID 0 1, 5, 1xserial port header. Video outputs: 8GB graphics card with its own memory, it is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse.Operating System: Microsoft Windows 8.1 64 bit. (BOSCH MHW-WZ4R4-EEUK or equivalent)	pcs	1	1,000.00	1000.00	Others	Material

Volumo	Sito	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vuindor	type
5.6	ZEDNIK	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output. high contrast 3,000: 1, 350 cd / m2 brightness, 178 " viewing angle (H / V) BOSCH UML-323-90 or equivalent	pcs	2	2.818 01	5636 02	Others	Material
5.6	ZEDNIK	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	966 18	966 18	Others	Material
5.6	ZEDNIK	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	4	143 58	574.32	Others	Material
5.6	ZEDNIK	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card. Intelligent access control for 1 to 4 entrances; 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers: Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM,RTC, Pluggable 2 GB compact flash; Battery for SRAM and RTC; Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	4	842 72	3370 88	Others	Material
5.6	ZEDNIK	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS BOSCH APS-PBC-60 or equivalent	pcs	4	198 60	794.40	Others	Material
5.6	ZEDNIK	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7 2 Ah	pcs	8	28 18	225 44	Others	Material
5.6	ZEDNIK	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting. Current consumption 65 mA/average, 225 mA maximum; IP55 protection level (BOSCH ARD-AYBS6260 or equivalent)	pcs	5	97 96	489 80	Others	Material
5.6	ZEDNIK	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	5	37.57	187.85	Others	Material
5.6	ZEDNIK	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables, halogen-free CQR FP2/GR/EOR or equivalent.	pcs	5	37 57	187 85	Others	Material
5.6	ZEDNIK	ACCESS CONTROL SYSTEM	Electromagnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	5	120 77	603 85	Others	Material
5.6	ZEDNIK	ACCESS CONTROL SYSTEM	Installation cable, type:JH(St)H 2x2x0.8	m	280	0.51	142 80	Others	Material
5.6	ZEDNIK	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	280	1 12	313 60	Others	Material
5.6	ZEDNIK	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	136 87	136 87	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway, includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303 27	303 27	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate BOSCH ICP-MAP5000-2 or equivalent	pcs	1	925 47	925 47	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loopconfigurations (not on stub configurations) Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent	pcs	1	201 29	201 29	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio- visual devices. Provides two programmable open-collector outputs BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175 79	175 79	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load BOSCH IPP-MAP0005-2 or equivalent	pcs	1	331 45	331 45	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA18G or equivalent	pcs	10	66 63	666.30	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology Automatic environmental noise test, sound check BOSCH DS1108I and ISP-EM55SM-120 or equivalent	pcs	9	90 70	816.30	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply.BOSCH IUI-SIR-ID or equivalent	pcs	2	91 25	182.50	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1.5 mm tamper proof againt opening cover; charging regulation voltage 13,8VDC; noise level 117dBA BOSCH IUI-SIR-OD or equivalent	pcs	2	161 03	322.06	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	Battery 12V 2 2Ah for additional power supply of outdoor siren BOSCH D1222 or equivalent	pcs	4	48 12	192.48	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate.BOSCH IUI-MAP0001-2 or equivalent	pcs	5	378 42	1892 10	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	Installation cable, type JH(St)H 3x2x0.8	m	650	0.87	563.82	Others	Material
5.6	ZEDNIK	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	370 19	370 19	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium Bosch or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2 x media convertor with 2 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstation- two addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensenables allocation of 128 points within the system	pcs	1	7.416 85	7416 85	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	2	89 91	179.82	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	4	139 56	558.24	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120 77	120 77	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	31	50 99	1580 69	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	3	81 79	245 37	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point thatsupports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	7	36 23	253.61	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	1	84 54	84.54	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	4	38 92	155.68	Others	Material

Volumo	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	2	148.71	297.42	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	16	16.10	257.60	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	33	26.02	858.66	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657 A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	360	0.51	183.60	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	250	1.12	280.00	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	400	1.32	528.00	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	0	1.83	0.00	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	0	2.03	0.00	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	2100	0.61	1281.00	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univoll FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	800	0.65	520.00	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	500	0.28	140.00	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free, dimensions:			-	0.00	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on theconcrete ceiling	m	100	15.40	1540.00	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m²	1	50.00	50.00	Others	Material
5.6	ZEDNIK	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Materiel(truss screws, U-clamps, expansion shields...)	set	1	574.90	574.90	Others	Material
5.6	NAUMICEVO	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full Bullet HD 1080p camera, 1/2.8 "CMOS HD 1937 x 1097 (2.12MP) sensor with Automatic Varifocal 2.8 to 12 mm lens, high dynamic range (HDR) of 137dB with intelligent dynamic noise suppression (iDNR), 60m viewing distance of IR LED, automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0051 lux in night mode, 0.0225 lux in color mode (30 IRE), 0.0lux with IR LED on, has a mechanical filter for real day / night mode. 1080p HD at 60fps maximum, simultaneous triple streaming (2 x H.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Camera contains Software license for intelligent video analysis for IP cameras with the following functions: The software system reliably detects, tracks, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image. Advanced tasks like multiple line crossing, loitering, crowd density estimation, and people counting are available - fully configurable forensic search; IP67, IK10 impact protection (BOSCH NBE-6502-AL or equivalent)	pcs	12	699.14	8389.68	Others	Material
5.6	NAUMICEVO	VIDEO SURVEILLANCE SYSTEM	Pole mount adapter for mounting brackets (BOSCH LTC 9213/01 or equivalent)	pcs	12	68.44	821.28	Others	Material
5.6	NAUMICEVO	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1/ 2.9" CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3,2 to 10mm with auto focus and iris; WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode; 5MPat 20fps maximum, simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics; IP66, IK10 impact protection (BOSCH NDE-3503-AL or equivalent)	pcs	3	881.88	2645.64	Others	Material
5.6	NAUMICEVO	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens. high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode. 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	46	1,112.44	51172.24	Others	Material
5.6	NAUMICEVO	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-832FHD-WMT or equivalent)	pcs	8	135.53	1084.24	Others	Material
5.6	NAUMICEVO	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.19 mm. Possesses the possibility of electronic high-resolution PTZ with the possibility of dividing the circular image into multiple rectangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; IK10 impact protection (BOSCH NUC-52051-F0E or equivalent)	pcs	6	547.50	3285.00	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price (S) B	Price (S) AxB	Vendor	type
5.6	NAUMICEVO	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon E5-1650 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, blue-ray RW, 8GB RAM, Gigabit (10/100/1000 Mbps) LAN,Intel® HD Audio, 2 x USB 3.0, 2 x USB 2.0, power 700W, RAID 0,1 , 5, 1xserial port header. Video outputs: 8GB graphics card with its own memory, it is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse.Operating System: Microsoft Windows 8.1 64 bit (BOSCH MHW-WZ4R4-EEUK or equivalent)	pcs	1	1,000.00	1000.00	Others	Material
5.6	NAUMICEVO	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 " viewing angle (H / V).BOSCH UML-323-90 or equivalent	pcs	2	2,818.01	5636.02	Others	Material
5.6	NAUMICEVO	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	sel	1	966.18	966.18	Others	Material
5.6	NAUMICEVO	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	3	143.58	430.74	Others	Material
5.6	NAUMICEVO	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card. Intelligent access control for 1 to 4 entrances; 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM,RTC; Pluggable 2 GB compact flash; Battery for SRAM and RTC; Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	3	842.72	2528.16	Others	Material
5.6	NAUMICEVO	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS.BOSCH APS-PBC-60 or equivalent	pcs	3	198.60	595.80	Others	Material
5.6	NAUMICEVO	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	6	28.18	169.08	Others	Material
5.6	NAUMICEVO	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting. Current consumption 65 mA/average, 225 mA maximum; IP55 protection level (BOSCH ARD-AYBS6260 or equivalent)	pcs	7	97.96	685.72	Others	Material
5.6	NAUMICEVO	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	7	37.57	262.99	Others	Material
5.6	NAUMICEVO	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables; halogen-free.COR FP2/GR/EDR or equivalent	pcs	7	37.57	262.99	Others	Material
5.6	NAUMICEVO	ACCESS CONTROL SYSTEM	Electromagnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	7	120.77	845.39	Others	Material
5.6	NAUMICEVO	ACCESS CONTROL SYSTEM	Installation cable, type:JH(St)H 2x2x0.8	m	260	0.51	132.60	Others	Material
5.6	NAUMICEVO	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	260	1.12	291.20	Others	Material
5.6	NAUMICEVO	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified materialand works	sel	1	136.87	136.87	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303.27	303.27	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate.BOSCH ICP-MAP5000-2 or equivalent	pcs	1	925.47	925.47	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loopconfigurations (not on stub configurations). Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent	pcs	1	201.29	201.29	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity.Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio- visual devices. Provides two programmable open-collector outputs.BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175.79	175.79	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load.BOSCH IPP-MAP0005-2 or equivalent	pcs	1	331.45	331.45	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA18G or equivalent	pcs	9	66.63	599.67	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology.Automatic environmental noise test, sound check.BOSCH DS1108I and ISP-EM55SM-120 or equivalent	pcs	8	90.70	725.60	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply.BOSCH IUI-SIR-ID or equivalent	pcs	2	91.25	182.50	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1,5 mm tamper proof againt opening cover; charging regulation voltage 13,8VDC; noise level 117dBA.BOSCH IUI-SIR-OD or equivalent	pcs	2	161.03	322.06	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additional power supply of outdoor siren.BOSCH D1222 or equivalent	pcs	4	48.12	192.48	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate.BOSCH IUI-MAP0001-2 or equivalent	pcs	7	378.42	2648.94	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	Installation cable, type JH(St)H 3x2x0.8	m	650	0.87	563.82	Others	Material
5.6	NAUMICEVO	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified materialand works	sel	1	370.19	370.19	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium Bosch or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2 x media converter with 2 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstation- two addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensenables allocation of 128 points within the system	pcs	1	7,416.85	7416.85	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	2	89.91	179.82	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	4	139.56	558.24	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; It has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	24	50.99	1223.76	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	3	81.79	245.37	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point thatsupports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	9	36.23	326.07	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	1	84.54	84.54	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard (FNM-320-SRD or equivalent)	pcs	3	38.92	116.76	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	3	148.71	446.13	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	11	16.10	177.10	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls, ...), with all the necessary material	pcs	21	26.02	546.42	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657.A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	300	0.51	153.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	250	1.12	280.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	400	1.32	528.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0.8	m	0	1.83	0.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	0	2.03	0.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	2000	0.61	1220.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	800	0.65	520.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	400	0.28	112.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free, dimensions:			-	0.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on theconcrete ceiling	m	100	15.40	1540.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m²	1	50.00	50.00	Others	Material
5.6	NAUMICEVO	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	sel	1	574.90	574.90	Others	Material
5.6	SUBOTICA	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full bullet HD 1080p camera, 1/2.8 "CMOS HD 1937 x 1097 (2.12MP) sensor with Automatic Varifocal 2.8-12 mm lens, high dynamic range (HDR) of 137dB with intelligent dynamic noise suppression (iDNR), 60m viewing distance of IR LED, automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0051 lux in night mode, 0.0225 lux in color mode (30 IRE), 0.0lux with IR LED on, has a mechanical filter for real day / night mode, 1080p HD at 60fps maximum, simultaneous triple streaming (2 x H.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Camera contains Software license for intelligent video analysis for IP cameras with the following functions: The software system reliably detects, tracks, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image. Advanced tasks like multiple line crossing, loitering, crowd density estimation, and people counting are available - fully configurable forensic search; IP67, IK10 impact protection (BOSCH NBE-6502-AL or equivalent)	pcs	51	699.14	35656.14	Others	Material
5.6	SUBOTICA	VIDEO SURVEILLANCE SYSTEM	Pole mount adapter for mounting brackets (BOSCHLTC 9213/01 or equivalent)	pcs	51	68.44	3490.44	Others	Material
5.6	SUBOTICA	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1 / 2.8 " CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3.2 to 10mm with auto focus and iris; WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min. lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode; 5MPat 20fps maximum, simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking, Objects and Intelligent Video Analytics, IP66, IK10 impact protection (BOSCH NDE-3503-AL or equivalent)	pcs	18	881.88	15873.84	Others	Material
5.6	SUBOTICA	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris **3-9mm lens**, high dynamic range (HDR) of minimum **120dB** with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	75	1.112.44	83433.00	Others	Material
5.6	SUBOTICA	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-832FHD-WMT or equivalent)	pcs	75	135.53	10164.75	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	SUBOTICA	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.19 mm. Possesses the possibility of electronic high-resolution PTZ with the possibility of dividing the circular image into multiple rectangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; IK10 impact protection (BOSCH NUC-52051-F0E or equivalent)	pcs	8	547.50	4380.00	Others	Material
5.6	SUBOTICA	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon E5-1650 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, blue-ray RW, 8GB RAM, Gigabit (10/100/1000 Mbps) LAN,Intel® HD Audio, 2 x USB 3.0, 2 x USB 2.0, power 700W, RAID 0,1 , 5, 1xserial port header. Video outputs: 8GB graphics card with its own memory, it is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse.Operating System: Microsoft Windows 8.1 64 bit (BOSCH **MHW-WZ4G4-HEN4** or equivalent)	pcs	2	1,000.00	2000.00	Others	Material
5.6	SUBOTICA	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V) BOSCH UML-323-90 or equivalent	pcs	5	2,818.01	14090.05	Others	Material
5.6	SUBOTICA	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	set	1	966.18	966.18	Others	Material
5.6	SUBOTICA	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	5	143.58	717.90	Others	Material
5.6	SUBOTICA	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card. Intelligent access control for 1 to 4 entrances; 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM,RTC; Pluggable 2 GB compact flash; Battery for SRAM and RTC; Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	5	842.72	4213.60	Others	Material
5.6	SUBOTICA	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS BOSCH APS-PBC-60 or equivalent	pcs	5	198.60	993.00	Others	Material
5.6	SUBOTICA	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	10	28.18	281.80	Others	Material
5.6	SUBOTICA	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting. Current consumption 65 mA/average, 225 mA maximum; IP55 protection level(BOSCH ARD-AYBS6260 or equivalent)	pcs	13	97.96	1273.48	Others	Material
5.6	SUBOTICA	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	13	37.57	488.41	Others	Material
5.6	SUBOTICA	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency; complete with junction box equipped with a series terminal for parallel separation of the system cables, halogen-free COR.FP2/GR/EDR or equivalent	pcs	13	37.57	488.41	Others	Material
5.6	SUBOTICA	ACCESS CONTROL SYSTEM	Electromagnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	13	120.77	1570.01	Others	Material
5.6	SUBOTICA	ACCESS CONTROL SYSTEM	Installation cable, type JH(St)H 2x2x0.8	m	800	0.51	408.00	Others	Material
5.6	SUBOTICA	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	800	1.12	896.00	Others	Material
5.6	SUBOTICA	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified materialand works	set	1	136.87	136.87	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	5	303.27	1516.35	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate BOSCH ICP-MAP5000-2 or equivalent	pcs	5	925.47	4627.35	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	Galeway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loop configurations (not on stub configurations). Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent	pcs	5	201.29	1006.45	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity.Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio- visual devices. Provides two programmable open-collector outputs.BOSCH ICP-MAP0007-2 or equivalent	pcs	5	175.79	878.95	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load.BOSCH IPP-MAP0005-2 or equivalent	pcs	5	557.13	2785.65	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	10	122.11	1221.10	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH PDL2-A12GL or equivalent	pcs	11	243.98	2683.78	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology.Automatic environmental noise test, sound check.BOSCH DS1108i and ISP-EM55SM-120 prequivalent	pcs	8	90.70	725.60	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply.BOSCH IUI-SIR-ID or equivalent	pcs	6	91.25	547.50	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1,5 mm tamper proof against opening cover; charging regulation voltage 13,8VDC; noise level 117dBABOSCH IUI-SIR-OD or equivalent	pcs	6	161.03	966.18	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additional power supply of outdoor siren.BOSCH D1222 or equivalent	pcs	12	48.12	577.44	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate.BOSCH IUI-MAP0001-2 or equivalent	pcs	10	378.42	3784.20	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	Installation cable, type:JH(St)H 3x2x0.8	m	3000	0.87	2602.25	Others	Material
5.6	SUBOTICA	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified materialand works	set	1	370.19	370.19	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 4 SM FOEthernet port for work stationSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstationtwo addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumplion per loop 300 mAcontrol module for batteries:modul for connectin 2 lines of alarm sirens	pcs	1	7,416.85	7416.85	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	2	89.91	179.82	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	8	139.56	1116.48	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Distribution cabinet (РО-ДП) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with two connection and one disconnection module 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, two fuse modules 10x2 10KA / 10A and three mechanical earthing drains and DIN rail	pcs	1	166.40	166.40	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Power supply box with space for 2 batteries with 40Ah and additional module for monitoring all outputs for power supplies. It connects directly to the loop and serves to power the siren and possible remote control system. It comes with 2 batteries with 12VDC / 42Ah. FPP - 5000 power supply model (EN 54-4, EN 54-17) with addressable communication module FPP - TI13 for forwarding the fault condition (main power failure, battery error, error of module for power supply, short circuit of output, error of grounding) Bosch or equivalent	pcs	1	2,439.84	2439.84	Others	Material

Volumo	Sito	System	Item Description	Jed. mera	Quantity A	Unit price (S) B	Price (S) A x B	Vendor	type
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel panel (FPE-8000-FMRor equivalent)	pcs	2	1.249.99	2499.98	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	212	50.99	10809.88	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	12	81.79	981.48	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable Fire Detectable Detector in ventilation ducts, with air suction box and metal tube length of 46 cm. The detector includes an isolation switch that in the case of short circuit or open connection ensures smooth operation of the system (faults due to electronic failure, continuous display of sensor dirt during service, fault due to excessive dirt)(FAD-420-HS-EN with FAD-425-O-R detector and D344-1.5 hose (45.7 cm long) Bosch or equivalent)	pcs	2	548.96	1097.92	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Line fire detector with controller. Detector includes infrared barriers. The barriers cover the distance from 5m to 100m. The barrier has an active receiver and transmitter, on the both ends there is an air reflector. Reflective prism allows precise detection of smoke particles within a given range of distances. The detector has a controller with LED and LCD display for adjusting up to 2 detectors (adjustable activation thresholds) from one location relatively far from the detector itself, without the need to go directly to the detector itself.(FIREBAY 5000, Bosch or equivalent)	pcs	0	955.81	0.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Flame detector. Sensitivity to EN 54-10 Class1: 0.1m² flame at 25m. Low risk of false alarms because of various of IR wavelength and combinations of filters and techniques of signal processing. Reliable work, even if the lens is partly covered with layer of oil, dust, water vapor or ice. Comes with a carrier. It contains setting of the response time. Dimension: 108 x 142 x 82 mm (IR3 Flame Detector, Bosch or equivalent)	pcs	2	8,295.44	16590.88	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point thatsupports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	57	36.23	2065.11	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	5	84.54	422.70	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	40	38.92	1556.80	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	4	148.71	594.84	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	33	16.10	531.30	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	12	351.34	4216.08	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 1 independently programmable low-voltage relay outputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Comes with box for wall mounting.(FLM-420-RLV1-D and FLM-IFB126-S Surface Bosch or equivalent)	pcs	2	219.59	439.18	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 8 independently programmable relay outputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting.(FLM-420-RLV8-S, Bosch or equivalent)	pcs	4	236.08	944.32	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently voltage relay outputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting.(FLM-420-I2-D and FLM-IFB126-S Surface, Bosch prequivalent)	pcs	14	219.59	3074.26	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 8 inputs and 1 low-voltage relay outputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Comes with box for wall mounting.(FLM-420-I8R1-S, Bosch or equivalent)	pcs	1	134.19	134.19	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	0	49.00	0.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changesin temperature	pcs	0	45.71	0.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls, ...), with all the necessary material	pcs	57	26.02	1483.14	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657.A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0.8	m	4400	0.51	2244.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	1400	1.12	1568.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	800	1.32	1056.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0.8	m	0	1.83	0.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	1000	2.03	2030.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1.5	m	2100	0.61	1281.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	3000	0.65	1950.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	2000	0.28	560.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free,dimensions:			-	0.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)							

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 withall the necessary Materialand assembly works on the concrete ceiling	m	500	15.40	7700.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply and delivery of firestop compound. Calculated with an average size of penetration of 0.3x0.3m	m³	1	50.00	50.00	Others	Material
5.6	SUBOTICA	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	574.90	574.90	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfacesmedia converter with 2 10/100BASE-TX ports and all neccessary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstationtwo functional modules (LSN 300A) each for one addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectio 2 lines of alarm sirens	pcs	1	7,416.85	7416.85	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	2	89.91	179.82	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah.	pcs	4	139.56	558.24	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Distribution cabinet (РО-ДП) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with two connection and one disconnection module 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, two fuse modules 10x2 10KA / 10A and three mechanical earthing drains and DIN rail	pcs	1	166.40	166.40	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	42	50.99	2141.58	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable heat detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAH-425-T-R, MS 400, TP4 400 or equivalent)	pcs	0	60.95	0.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point that supports EN54 and VdS standard (FMC-210-DM-G-Ror equivalent)	pcs	9	36.23	326.07	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	2	84.54	169.08	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	6	38.92	233.52	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	2	148.71	297.42	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	0	12.00	0.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	0	49.00	0.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	2	351.34	702.68	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls, ...), with all the necessary material	pcs	25	26.02	650.50	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657.A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	900	0.51	459.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	200	1.12	224.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	200	1.32	264.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	0	1.83	0.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	250	2.03	507.50	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	2100	0.61	1281.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with ali fittings and connecting elements and clamps (3 pcs/1m), (installation in the building). (Dielzel Univolt FX) or equivalent. Inner diameter			-	0.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	1000	0.65	650.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	600	0.28	168.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free,dimensions:			-	0.00	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) A×B	Vondor	type
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on theconcrete ceiling	m	150	15.40	2310.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply and delivery of firestop compound. Calculated with an average size of penetration of 0.3x0.3m	m²	1	50.00	50.00	Others	Material
5.6	ETP	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expension shields...)	sel	1	574.90	574.90	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium or equivalent) that supports EN54 and VdS standard, equipped with the following elements steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit: 24 V/5AUSB: CAN, Ethernet interfaces2 media converter with 2 10/100BASE-TX ports and all neccessary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstationtwo functional modules ((LSN 300A)) each for one addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 700 mAcontrol module for batteriesmodul for connectio 2 lines of alarm sirens	pcs	1	7,416.85	7416.85	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	2	89.91	179.82	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah.	pcs	4	139.56	558.24	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Distribution cabinet (РО-ДП) for flushed wall mounting made of steel sheet, dimension 260x260x145mm. with mounting frames for modules, equipped with two connection and one disconnection module 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, two fuse modules 10x2 10KA / 10A and three mechanical earthing drains and DIN rail	pcs	1	166.40	166.40	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	13	50.99	662.87	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Flame detector. Sensitivity to EN 54-10 Class1. 0.1m² flame at 25m. Low risk of false alarms because of various of IR wavelength and combinations of filters and techniques of signal processing. Reliable work, even if the lens is partly covered with layer of oil, dust, water vapor or ice. Comes with a carrier. It contains setting of the response time. Dimension: 108 x 142 x 82 mm.(IR3 Flame Detector, Bosch or equivalent)	pcs	4	8,295.44	33181.76	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Power supply box, with space for 2 batteries with 40Ah and additional module for monitoring all outputs for power supplies. It connects directly to the loop and serves to power the siren and possible remote control system. It comes with 2 batteries with 12VDC / 42Ah. FPP - 5000 power supply model (EN 54-4, EN 54-17) with addressable communication module FPP - TI13 for forwarding the fault condition (main power failure, battery error, error of module for power supply, short circuit of output, error of grounding) Bosch or equivalent	pcs	2	2,439.84	4879.68	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point that supports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	5	36.23	181.15	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	0	63.00	0.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	7	38.92	272.44	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard IP66 (FNM-320-SRD or equivalent)	pcs	1	148.71	148.71	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	1	16.10	16.10	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 for accepting conventional elements. It has a short-circuit isolator.(FLM-420/4-CON-S, Bosch or equivalent)	pcs	2	213.77	427.54	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 8 inputs and 1 low-voltage relay outputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Comes with box for wall mounting (FLM-420-I8R1-S, Bosch or equivalent)	pcs	3	134.19	402.57	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status, i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changesin temperature	pcs	1	61.34	61.34	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	57	26.02	1483.14	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657.A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type			-	0.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	600	0.51	306.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	300	1.12	336.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	200	1.32	264.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	0	1.83	0.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	250	2.03	507.50	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	2100	0.61	1281.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building). (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	1000	0.65	650.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	600	0.28	168.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free,dimensions:			-	0.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on theconcrete ceiling	m	100	15.40	1540.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply and delivery of firestop compound. Calculated with an average size of penetration of 0.3x0.3m	m²	1	50.00	50.00	Others	Material
5.6	Relejna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields ...)	set	1	574.90	574.90	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium or equivalent) that supports EN54 and VdS standard, equipped with the following elements steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2 media converter with 2 10/100BASE-TX ports and all neccessary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstationtwo functional modules (LSN 300A) each for one addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectio 2 lines of alarm sirens	pcs	1	7,416.85	7416.85	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	2	89.91	179.82	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	4	139.56	558.24	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Distribution cabinet (РО-ДП) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with two connection and one disconnection module 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, two fuse modules 10x2 10KA / 10A and three mechanical earthing drains and DIN rail	pcs	1	166.40	166.40	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	26	50.99	1325.74	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point that supports EN54 and VdS standard (FMC-210-DM-G-Ror equivalent)	pcs	6	36.23	217.38	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	5	38.92	194.60	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting. (FLM-420-RHV-D and FLM-IFB126-S Surface, Bosch or equivalent)	pcs	2	351.34	702.68	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changesin temperature	pcs	1	61.34	61.34	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	57	26.02	1483.14	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657.A1, length 50m, LSZH	pcs	4	86.00	344.00	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	600	0.51	306.00	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	300	1.12	336.00	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	500	1.32	660.00	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	0	1.83	0.00	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- TK 59 M 5x4x0,8	m	250	2.03	507.50	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- PP00 3x1,5	m	2100	0.61	1281.00	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	20	0.99	19.80	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	1000	0.65	650.00	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	600	0.28	168.00	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Self-adhesive plastic ducts, halogen-free,dimensions:			-	0.00	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x16x1000mm	m	20	3.77	75.40	Others	Material

Volumo	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	- 16x40x1000mm	m	30	3.77	113.10	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Supply of a certified fire protection rack PNK 100 with all the necessary Materialand assembly works on theconcrete ceiling	m	90	15.40	1386.00	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation	m²	1	50.00	50.00	Others	Material
5.6	Teretna	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	574.90	574.90	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Subsystem central unit for fire alarming and fire exstinguishing managment with one exstinguishing zone, with possibility of connecting two automatic detector and two manual coll point zones, with relay module for activation of alarm devices for exstinguisihing and other executive functions, including power supply unit and backup batteries for system autonomy , 2x12V, 7,2Ah Central unit must have VdS attest	pcs	1	1,101.71	1101.71	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Conventional optical smoke detector. Includes mounting base, short-circuit isolator and label.	pcs	4	37.57	150.28	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Manual call point for stopping of the exstinguishing	pcs	1	29.52	29.52	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Manual call point for activation of the exstinguishing	pcs	1	29.52	29.52	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Alarm siren with orange flashlight	pcs	2	73.81	147.62	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Warning illuminated panel with inscription "GAS -LEAVE THE ROOM!" or equivalent	pcs	1	92.59	92.59	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Warning illuminated panel with inscription "GAS - DONOT ENTER!" or equivalent	pcs	1	92.59	92.59	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	0	12.00	0.00	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	21.47	21.47	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Aspirational smoke detector for computer racks in room with space for two detection modules. It must enable connection of sufficient number of pipes for sampling and conveying air to highly sensitive smoke detectors. Detector module class A. With tree alarm levels (info, pre-alarm, alarm) for each detector, LED detector status indicator, fault state indicator and power state indicator, max sensitivity 0.005% (light obscuration/m). It must perform constant monitoring of flow trough pipes thus controlling the state of sampling pipes and cleanness of the sampling holes. The fan should have a min. 2 speeds. With LAN network card, inlegrated memory for incident storage. Comes with smoke detectors, filter modules, suction tubes, knees, suction set and other necessary equipment. The detector should meet EN54-20 class A, B C and have VdS attestation (Titanus PRO SENSE 2/ net (TP-5), Wegner or equivalent)	pcs	1	4,406.83	4406.83	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Pipe set with couplings, bends, curves, supports, adhesives, air reducers. Standard for pipes and other elements EN 54-20 I ABS 61386-1	pcs	15	43.92	658.80	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Cabinet for powering the aspiration detector, in accordance with EN54. Temperature and time controlled battery charging process. Outputs with fuses. The cabinet contains all necessary travois, power units, automatic fuses, relay cards, input- output modules, bateries... Kit with accessories for connecting equipment and wall mounting. Powering process overseen by system's central unit via dedicated addressable modules in the loop. (BOSCH FPP-5000 or equivalent)	pcs	1	1,054.74	1054.74	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Installation cable, type:			-	0.00	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- J-H(St)H 2x2x0,8	m	200	0.51	102.00	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- JH(St)H 5x2x0.8	m	60	1.12	67.20	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- NHXHX 3x1,5 FE180/E30	m	30	1.12	33.60	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- NHXHX 3x1,5 FE180/E90	m	80	1.32	105.60	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- JE-H(St)H /FE180/E90 2x2x0,8	m	110	1.83	201.30	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univoll FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø40	m	20	0.99	19.80	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø36	m	300	0.65	195.00	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø16	m	200	0.28	56.00	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation	m²	8	50.00	400.00	Others	Material
5.6	Teretna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	203.97	203.97	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Subsystem central unit for fire alarming and fire exstinguishing managment with two exstinguishing zones, with possibility of connecting four automatic detector and two manual coll point zones, with relay module for activation of alarm devices for exstinguisihing and other executive functions, including power supply unit and backup batteries for system autonomy , 2x12V, 7,2Ah. Central unit musthave VdS attest	pcs	1	1,101.71	1101.71	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Subsystem central unit for fire alarming and fire exstinguishing managment with one exstinguishing zone, with possibility of connecting two automatic detector and two manual coll point zones, with relay module for activation of alarm devices for exstinguisihing and other executive functions, including power supply unit and backup batteries for system autonomy , 2x12V, 7,2Ah. Central unit must have VdS attest	pcs	1	1,101.71	1101.71	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Conventional optical smoke detector. Includes mounting base, short-circuit isolator and label	pcs	12	37.57	450.84	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Manual call point for stopping of the exstinguishing	pcs	2	29.52	59.04	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Manual call point for activation of the exstinguishing	pcs	2	29.52	59.04	Others	Material

Volumo	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Alarm siren with orange flashlight	pcs	4	73.81	295.24	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Warning illuminated panel with inscription "GAS -LEAVE THE ROOM!" or equivalent	pcs	2	92.59	185.18	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Warning illuminated panel with inscription "GAS - DONOT ENTER!" or equivalent	pcs	2	92.59	185.18	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	4	16.10	64.40	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Magnetic contact for monitoring the fire door status,i e whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	2	21.47	42.94	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Aspirational smoke detector for computer racks in room with space for two detection modules. It must enable connection of sufficient number of pipes for sampling and conveying air to highly sensitive smoke detectors. Detector module class A. With tree alarm levels (info, pre-alarm, alarm) for each detector, LED detector status indicator, fault state indicator and power state indicator, max sensitivity 0.005% (light obscuration/m). It must perform constant monitoring of flow trough pipes thus controlling the state of sampling pipes and cleanness of the sampling holes. The fan should have a min. 2 speeds. With LAN network card, integrated memory for incident storage. Comes with smoke detectors, filter modules, suction tubes, knees, suction set and other necessary equipment. The detector should meet EN54-20 class A, B C and have VdS attestation.(Titanus PRO SENSE 2/ nel (TP-5), Wagner or equivalent)	pcs	1	4,406.83	4406.83	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Pipe set with couplings, bends, curves, supports, adhesives, air reducers. Standard for pipes and other elements EN 54-20 I ABS 61386-1	pcs	20	43.92	878.40	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Cabinet for powering the aspiration detector, in accordance with EN54. Temperature and time controlled battery charging process. Outputs with fuses. The cabinet contains all necessary travois, power units, automatic fuses, relay cards, input- output modules, baleries ... Kit with accessories for connecting equipment and wall mounting. Powering process overseen by system's central unit via dedicated addressable modules in the loop. (BOSCH FPP-5000 or equivalent)	pcs	1	1,054.74	1054.74	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Installation cable, type:			-	0.00	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- J-H(St)H 2x2x0,8	m	200	0.51	102.00	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- JH(St)H 5x2x0.8	m	60	1.12	67.20	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- NHXHX 3x1,5 FE180/E30	m	30	1.12	33.60	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- NHXHX 3x1,5 FE180/E90	m	80	1.32	105.60	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- JE-H(St)H /FE180/E90 2x2x0,8	m	110	1.83	201.30	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building). (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø40	m	20	0.99	19.80	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø36	m	300	0.65	195.00	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø16	m	200	0.28	56.00	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m³	8	50.00	400.00	Others	Material
5.6	Relejna	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	203.97	203.97	Others	Material
5.6	Relejna	SOS SYSTEM	The central panel with the following functions: reception and light-sound call presentation, quitting calls and conducting all-call protocols, connecting to the Ethernet network. Completed with power supply unit and all mounting equipment.	pcs	1	551.53	551.53	Others	Material
5.6	Relejna	SOS SYSTEM	A call-quit combination device. It has the following functions: reception of information from the call pushbuttons, transmission of information to the central panel, call termination. Comes complete with all mounting equipment. (PRK 2040 or equivalent)	pcs	1	92.59	92.59	Others	Material
5.6	Relejna	SOS SYSTEM	Room signal light, two-colored, has a light call presentation function. (SSL 2002 or equivalent)	pcs	1	29.52	29.52	Others	Material
5.6	Relejna	SOS SYSTEM	SOS pushbutton for mounting next to the toilet intestroom, together with the mounting kit	pcs	1	20.13	20.13	Others	Material
5.6	Relejna	SOS SYSTEM	Distribution box equipped with serial terminals for parallel separation of the installation without halogenelements	pcs	2	37.57	75.14	Others	Material
5.6	Relejna	SOS SYSTEM	Installation cable type:			-	0.00	Others	Material
5.6	Relejna	SOS SYSTEM	JH(St)H 3x2x0.8	m	50	0.71	35.50	Others	Material
5.6	Relejna	SOS SYSTEM	JH(St)H 2x2x0.6	m	40	0.61	24.40	Others	Material
5.6	Relejna	SOS SYSTEM	Small sundry items and other unspecified materialand works	set	1	67.10	67.10	Others	Material
5.6	Relejna	VIDEO SURVEILLANCE SYSTEM	Network storage device based on the iSCSI interface. Adjustable hardware protection (RAID-5 or RAID-6) Optimized for 24/7 work, certified by the video management software manufacturar. Redundant power (hot-swapp). Minimum two network interfaces (10GB per interface), minimum flow 600Mbs. Dual controller systems the iSCSI ports with thesame number are tied together for redundancypurpose, while one of the ports is a fail-back path for an iSCSI port on the other controller.	pcs	18	28,180.11	507241.98	Others	Material
5.6	Relejna	VIDEO SURVEILLANCE SYSTEM	Client video monitoring work station based on Intel® Core ™ Xeon W-2123 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, 16GB DDR4 RAM, Nivada Quadro RTX 4000 graphics card, Gigabit (10/100/1000 Mbps) LAN, power 750W. It is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse Operating System: Microsoft Windows 10 Proffesional 64 bit (BOSCH MHW-WZ4G4-HEN4 or equivalent)	pcs	2	1,000.00	2000.00	Others	Material
5.6	Relejna	VIDEO SURVEILLANCE SYSTEM	Professional monitor for video surveillance systems type LED / Diagonal 42 "Wide / Resolution 1920x1080 Full HD / aspect ratio 16: 9 / 8ms response / Contrast 4000: 1 (static) / Brightness 250cd / m² / Refresh 60Hz / Viewing Angle 178 ° (H) Connectors DVI-D, VGA, HDMI, S-video, CVBS / Additional functions: cable management, VESA standard for wall mounting (400mm x 400mm) Mounting on a panel or wall (BOSCH UML-423-90 or equivalent)	pcs	4	4,159.92	16639.68	Others	Material
5.6	Relejna	VIDEO SURVEILLANCE SYSTEM	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V).BOSCH UML-323-90 or equivalent	pcs	4	2,818.01	11272.04	Others	Material
5.6	Relejna	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	set	1	966.18	966.18	Others	Material
5.6	Relejna	INTEGRATION OF SECURITY SYSTEMS	Client video monitoring work station based on Intel® Core ™ Xeon W-2123 processor and Microsoft operting system. Archive overview and live view in maximum FPS of at least 32 installed cameras.Technical specifications min: 500GB HDD, 16GB DDR4 RAM, Nivada Quadro RTX 4000 graphics card, Gigabit (10/100/1000 Mbps) LAN, power 750W. It is possible to connect up to 4 monitors simultaneously. Others: MiniTower, keyboard, optical mouse.Operating System: Microsoft Windows 10 Proffesional 64 bit (BOSCH MHW-WZ4G4-HEN4 or equivalent)	pcs	1	1,000.00	1000.00	Others	Material

Volumo	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	Relejna	INTEGRATION OF SECURITY SYSTEMS	Wide LED monitor 32 "Full HD optimized for 24/7 operation with video surveillance systems with the following features: 1920x1080Px, HDMI, DVI, VGA, S- Video inputs. Two composite BNC connectors - input and loop-through output, high contrast 3,000: 1, 350 cd / m2 brightness, 178 ° viewing angle (H / V) BOSCH UML-323-90 or equivalent	pcs	4	2.818 01	11272 04	Others	Material
5.6	Relejna	INTEGRATION OF SECURITY SYSTEMS	Parallel panel (FPE-8000-FMRor equivalent)	pcs	1	1.249 99	1249 99	Others	Material
5.6	Relejna	INTEGRATION OF SECURITY SYSTEMS	- system cable for parallel panel	m	30	3.22	96 60	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1 / 2.9" CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3,2 to 10mm with auto focus and iris; WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min. lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode; 5MPat 20fps maximum, simultaneous triple streaming (2 x H.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics. IP66, IK10 impact protection (BOSCH NDE-3503-AL is equivalent)	pcs	3	881 88	2645 64	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens, high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	8	1,112 44	8899 52	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall (BOSCH VDA-832FHD-WMT or equivalent)	pcs	8	135 53	1084 24	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 °, Fisheye 1.19 mm. Possesses the possibility of electronic high- resolution PTZ with the possibility of dividing the circular image into multiple rectangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; IK10 impact protection (BOSCH NUC-52051-F0E or equivalent)	pcs	2	547 50	1095 00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	sel	1	966 18	966 18	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	1	143 58	143 58	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card. Intelligent access control for 1 to 4 entrances; 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM, RTC; Pluggable 2 GB compact flash; Battery for SRAM and RTC; Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	1	842 72	842 72	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	ACCESS CONTROL SYSTEM	Extension unit with 8 additional inputs and 8 outputs. Intelligent access control for one to eight inputs. Four interfaces including readers power supply. LCD display for displaying information.BOSCH API-AMC2-16ION or equivalent	pcs	1	653 51	653 51	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS.BOSCH APS-PBC-60 or equivalent	pcs	1	198 60	198 60	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	2	28 18	56 36	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting. Current consumption 65 mA/average, 225 mA maximum; IP55 protection level(BOSCH ARD-AYBS6260 or equivalent)	pcs	4	97 96	391 84	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	4	37 57	150 28	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables, halogen-free CQR FP2/GR/EDR or equivalent	pcs	4	37 57	150 28	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	ACCESS CONTROL SYSTEM	Electromagnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	4	120 77	483 08	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	ACCESS CONTROL SYSTEM	Installation cable, type			-	0.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	ACCESS CONTROL SYSTEM	JH(St)H 2x2x0 8	m	300	0 51	153 00	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	500	1.12	560.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified materialand works	set	1	136.87	136.87	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303.27	303.27	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m, the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate BOSCH ICP-MAP5000-2 or equivalent.	pcs	1	925.47	925.47	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loop configurations (not on stub configurations). Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent.	pcs	1	201.29	201.29	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity.Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio-visual devices. Provides two programmable open-collector outputs.BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175.79	175.79	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output .Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load BOSCH IPP-MAP0005-2 or equivalent.	pcs	1	331.45	331.45	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA18G or equivalent	pcs	4	66.63	266.52	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology Automatic environmental noise test, sound check.BOSCH DS1108I and ISP-EM55SM-120 orequivalent	pcs	1	90.70	90.70	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply, BOSCH IUI-SIR-ID or equivalent	pcs	2	91.25	182.50	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1.5 mm tamper proof againt opening cover; charging regulation voltage 13,8VDC; noise level 117dBABOSCH IUI-SIR-OD or equivalent	pcs	1	161.03	161.03	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additional power supply of outdoor siren.BOSCH D1222 or equivalent	pcs	1	48.12	48.12	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	Keypad. LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate BOSCH IUI-MAP0001-2 or equivalent	pcs	2	378.42	756.84	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	Installation cable, type:JH(St)H 3x2x0.8	m	400	0.87	346.97	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified materialand works	set	1	370.19	370.19	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium Bosch or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with cover- panel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2 x media convertor with 2 10/100BASE-TX ports and all neccessary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstationtwo addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensenables allocation of 128 points within the system	pcs	1	7,416.85	7416.85	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	1	146.85	146.85	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	4	256.52	1026.08	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel, it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	289.98	289.98	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP 425-O-R, MS 400, TP4 400 or equivalent)	pcs	14	85.51	1197.14	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Addressable indoor detector - manual call point that supports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	4	61.34	245.36	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	2	126.40	252.80	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	3	61.34	184.02	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	2	148.71	297.42	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting.(FLM-420-RHV-D and FLM-IFB126-S Surface,Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdSstandard (FLM-420-I2-W or equivalent)	pcs	3	171.02	513.06	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Magnetic contact for monitoring the fire door status,i e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	2	61.34	122.68	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Input module with eight inputs for connecting with subsystem central unit within the fire loop that supports EN54 and VdS standard (FLM-420-I8R1-Sor equivalent)	pcs	1	236.08	236.08	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls, ...), with all the necessary material	pcs	15	26.02	390.30	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657 A1, length 50m, LSZH	pcs	2	86.00	172.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	installation cable, type:			-	0.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- J-H(St)H 2x2x0,8	m	220	0.70	153.95	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	100	1.86	185.65	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	70	1.86	129.95	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	30	2.81	84.40	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- Ø40	m	50	1.69	84.26	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- Ø36	m	200	1.69	337.03	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- Ø16	m	200	0.54	108.53	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m^2	2	50.00	100.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	574.90	574.90	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Subsystem central unit for fire alarming and fire exstinguishing managment with two exstinguishing zones, with possibility of connecting four automatic detector and two manual coll point zones, with relay module for activation of alarm devices for exstinguisihing and other executive functions, including power supply unit and backup batteries for system autonomy , 2x12V, 8Ah. Central unit must have VdS attest	pcs	1	3,255.33	3255.33	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Conventional optical smoke detector Includes mounting base, short-circuit isolator and label.	pcs	8	37.57	300.56	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Manual call point for stopping of the exstinguishing	pcs	1	29.52	29.52	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Manuel call point for activation of the exstinguishing	pcs	1	29.52	29.52	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Alarm siren with orange flasnlight	pcs	1	73.81	73.81	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Warning iluminated panel with inscription "GAS -LEAVE THE ROOM!" or equivalent	pcs	1	92.59	92.59	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Warning iluminated panel with inscription "GAS - DO NOT ENTER!" for indoor mounting or equivalent	pcs	1	92.59	92.59	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Parallel light indicator	pcs	4	16.10	64.40	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Magnetic contact for monitoring the fire door status,i e whether the fire door is open or closed, complete with a permanent magnet. Melnod of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	21.47	21.47	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Installation cable, type:			-	0.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- J-H(St)H 2x2x0.8	m	100	0.51	51.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- JH(St)H 5x2x0.8	m	0	1.12	0.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- NHXHX 3x1,5 FE180/E30	m	30	1.12	33.60	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- NHXHX 3x1,5 FE180/E90	m	40	1.32	52.80	Others	Material

Volume	Site	System	Item Description	Jed more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- JE-H(St)H /FE180/E90 2x2x0,8	m	80	1.83	146.40	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univoll FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø40	m	40	0.99	39.60	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø36	m	220	0.65	143.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø16	m	100	0.28	28.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation	m²	2	50.00	100.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)ETS (NOVI SAD, VRBAS, SUBOTICA)	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	203.97	203.97	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1 / 2.9" CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3.2 to 10mm with auto focus and iris; WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min. lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode; 5MPal.20fps maximum, simultaneous triple streaming (2 x H.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics, IP66, IK10 impact protection (BOSCH NDE-3503-AL, Is equivalent)	pcs	1	881.88	881.88	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens, high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	8	1,112.44	8899.52	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall (BOSCH VDA-832FHD-WMT or equivalent)	pcs	8	135.53	1084.24	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.19 mm. Possesses the possibility of electronic high- resolution PTZ with the possibility of dividing the circular image into multiple rectangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR). Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; IK10 impact protection (BOSCH NUC-52051-F0E or equivalent)	pcs	1	547.50	547.50	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	set	1	966.18	966.18	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	1	143.58	143.58	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card. Intelligent access control for 1 to 4 entrances; 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM, RTC; Pluggable 2 GB compact flash; Battery for SRAM and RTC; Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	1	842.72	842.72	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS. BOSCH APS-PBC-60 or equivalent	pcs	1	198.60	198.60	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	2	28.18	56.36	Others	Material

Volumo	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting Current consumption 65 mA/average, 225 mA maximum; IP55 protection level(BOSCH ARD-AYBS6260 or equivalent)	pcs	4	97.96	391.84	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	4	37.57	150.28	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables, halogen-free CQR FP2/GR/EDR or equivalent	pcs	4	37.57	150.28	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	ACCESS CONTROL SYSTEM	Electromagnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	4	120.77	483.08	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	ACCESS CONTROL SYSTEM	Installation cable, type:			*	0.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	ACCESS CONTROL SYSTEM	JH(St)H 2x2x0.8	m	350	0.51	178.50	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	400	1.12	448.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified materialand works	set	1	136.87	136.87	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303.27	303.27	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate.BOSCH ICP-MAP5000-2 or equivalent	pcs	1	925.47	925.47	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loop configurations (not on stub configurations). Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent.	pcs	1	201.29	201.29	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity.Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio-visual devices. Provides two programmable open-collector outputs BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175.79	175.79	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load.BOSCH IPP-MAP0005-2 or equivalent	pcs	1	331.45	331.45	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA18G or equivalent	pcs	3	66.63	199.89	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology Automatic environmental noise test, sound check.BOSCH DS1108I and ISP-EM55SM-120 orequivalent	pcs	4	90.70	362.80	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply, BOSCH IUI-SIR-ID or equivalent	pcs	1	91.25	91.25	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1,5 mm tamper proof against opening cover; charging regulation voltage 13.8VDC; noise level 117dBABOSCH IUI-SIR-OD or equivalent	pcs	1	161.03	161.03	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additional power supply of outdoor siren.BOSCH D1222 or equivalent	pcs	1	48.12	48.12	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate.BOSCH IUI-MAP0001-2 or equivalent	pcs	3	378.42	1135.26	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	Installation cable, type JH(St)H 3x2x0.8	m	300	0.87	260.22	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified materialand works	set	1	370.19	370.19	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium Bosch or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with cover- panel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5ALISB, CAN, Ethernet interfaces2 x media convertor with 2 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstationtwo addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensenables allocation of 128 points within the system	kpm	1	7,416.85	7416.85	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	1	146.85	146.85	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	4	256.52	1026.08	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	289.98	289.98	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP 425-O-R, MS 400, TP4 400 or equivalent)	pcs	13	85.51	1111.63	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Addressable indoor detector - manual call point that supports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	2	61.34	122.68	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	2	126.40	252.80	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	1	61.34	61.34	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	2	148.71	297.42	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	4	20.45	81.80	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting (FLM-420-RHV-D and FLM-IFB126-S Surface,Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Input module with eight inputs for connecting the subsystem central unit within the loop that supports EN54 and VdS standard (FLM-420-I2-W orequivalent)	pcs	1	236.08	236.08	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	15	26.02	390.30	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657 A1, length 50m, LSZH	pcs	2	86.00	172.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- J-H(St)H 2x2x0,8	m	160	0.70	111.96	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	60	1.86	111.39	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	20	1.86	37.13	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Halogen-free corrugated installation hose with all fitlings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dielzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- Ø40	m	20	1.69	33.70	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- Ø36	m	140	1.69	235.92	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- Ø16	m	130	0.54	70.55	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation	m³	2	50.00	100.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPSN (ZMAJEVO, BAČKA TOPOLA, DRŽAVNA GRANICA)	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	574.90	574.90	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1 / 2.9" CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3.2 to 10mm with auto focus and iris; WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at min. lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode; 5MPat 20fps maximum, simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics. IP66, IK10 impact protection (BOSCH NDE-3503-AL Is equivalent)	pcs	1	881.88	881.88	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens, high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	8	1,112.44	8899.52	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-832FHD-WMT or equivalent)	pcs	8	135.53	1084.24	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	VIDEO SURVEILLANCE SYSTEM	IP Panoramic ceiling ONVIF 5Mpix camera with 1/3- inch CMOS and lens 360 ° Fisheye 1.19 mm. Possesses the possibility of electronic high- resolution PTZ with the possibility of dividing the circular image into multiple rectangular images. With WDR of minimum 81dB with intelligent dynamic noise suppression (iDNR) Simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; IK10 impact protection (BOSCH NUC-52051-F0E or equivalent)	pcs	1	547.50	547.50	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	set	1	966.18	966.18	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	1	143.58	143.58	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card. Intelligent access control for 1 to 4 entrances; 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM, RTC; Pluggable 2 GB compact flash; Battery for SRAM and RTC; Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	1	842.72	842.72	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS BOSCH APS-PBC-60 or equivalent	pcs	1	198.60	198.60	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	2	28.18	56.36	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting. Current consumption 65 mA/average, 225 mA maximum; IP55 protection level(BOSCH ARD-AYBS6260 or equivalent)	pcs	4	97.96	391.84	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	4	37.57	150.28	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables, halogen-free CQR FP2/GR/EDR or equivalent	pcs	4	37.57	150.28	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	ACCESS CONTROL SYSTEM	Electromagnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	4	120.77	483.08	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	ACCESS CONTROL SYSTEM	Installation cable, type:			-	0.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	ACCESS CONTROL SYSTEM	JH(St)H 2x2x0.8	m	350	0.51	178.50	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	400	1.12	448.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified materialand works	set	1	136.87	136.87	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303.27	303.27	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m: the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate.BOSCH ICP-MAP5000-2 or equivalent	pcs	1	925.47	925.47	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loop configurations (not on stub configurations). Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent.	pcs	1	201.29	201.29	Others	Material

Volume	Site	System	Item Description	Jed. mera	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity.Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio-visual devices. Provides two programmable open-collector outputs BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175.79	175.79	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independentpower ports with fixed 28 VDC. Provides 150 W for	pcs	1	331.45	331.45	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA18G or equivalent	pcs	3	66.63	199.89	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology Automatic environmental noise test, sound check.BOSCH DS1108i and ISP-EM55SM-120 orequivalent	pcs	4	90.70	362.80	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	Siren, indoor mounting. Nominal power 117 dBA. This siren is tamper proof against opening the cover and removing the base from wall. The siren has the possibility of a built-in back-up power supply, BOSCH IUI-SIR-ID or equivalent	pcs	1	91.25	91.25	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1,5 mm tamper proof againt opening cover; charging regulation voltage 13,8VDC, noise level 117dBABOSCH IUI-SIR-OD or equivalent	pcs	1	161.03	161.03	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additional power supply of outdoor siren.BOSCH D1222 or equivalent	pcs	1	48.12	48.12	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate.BOSCH IUI-MAP0001-2 or equivalent	pcs	3	378.42	1135.26	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	Installation cable, type:JH(St)H 3x2x0.8	m	300	0.87	260.22	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified materialand works	set	1	370.19	370.19	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium Bosch or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbracket for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5A/LSB, CAN, Ethernet interfaces2 x media convertor with 2 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstation- two addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensenables allocation of 128 points within the system	pcs	1	7,416.85	7416.85	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	1	146.85	146.85	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	4	256.52	1026.08	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	289.98	289.98	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	13	85.51	1111.63	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Addressable indoor detector - manual call point thatsupports EN54 and VdS standard (FMC-210-DM-G- R or equivalent)	pcs	2	61.34	122.68	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Addressable outdoor detector - manual call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	2	126.40	252.80	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Indoor alarm siren that supports EN54 and VdS standard. (FNM-320-SRD or equivalent)	pcs	1	61.34	61.34	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	2	148.71	297.42	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Parallel light indicator that supports EN54 and VdS standard (FAA-420-RI-ROW or equivalent)	pcs	4	20.45	81.80	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Addressable module with 2 independently programmable high-voltage relay outputs and 2 independently programmable voltage relay inputs. It contains an isolation switch that in the event of a short circuit or an open connection ensures smooth operation of the system. Possibility of hanging directly into the din rail. Comes with box for wall mounting (FLM-420-RHV-D and FLM-IFB126-S Surface,Bosch or equivalent)	pcs	1	351.34	351.34	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM420-I2-W or equivalent)	pcs	1	171.02	171.02	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	1	61.34	61.34	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	13	26.02	338.26	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- optical patch cord E2000/APC - LC duplexG657.A1, length 50m, LSZH	pcs	2	86.00	172.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- J-H(St)H 2x2x0.8	m	160	0.70	111.96	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	60	1.86	111.38	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	20	1.86	37.13	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- Ø40	m	20	1.69	33.70	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery.	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- Ø36	m	140	1.69	235.92	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	- Ø16	m	110	0.54	59.69	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m^2	2	50.00	100.00	Others	Material
5.6	ELECTRIC POWER PLANTS (ETS, TSP and TSPN)TPS (KISAC, LOVĆENAC, ŽEDNIK, SUBOTICA)Note: All items relating to materials include delivery	AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	574.90	574.90	Others	Material
5.6	Open Green	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD camera, 1/2.9" CMOS HD 3072 x 1728 (5MP) sensor with built-in lens 3.2 to 10mm with auto focus and iris; WDR of minimum 120dB with intelligent dynamic noise suppression (iDNR); automatic electronic shutter speed control (AES); sensitivity at min. lighting conditions 0.042 lux in night mode, 0.379 lux in color mode (30 IRE), has a mechanical filter for real day / night mode; 5MPat 20fps maximum, simultaneous triple streaming (2 xH.265 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB. Advanced features include Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics, IP66, IK10 impact protection (BOSCH NDE-3503-AL (s equivalent)	pcs	3	881.88	2645.64	Others	Material
5.6	Open Green	VIDEO SURVEILLANCE SYSTEM	IP ONVIF Day / Night full HD 1080p camera, 1/3 "CMOS HD 2048 x 1536 (3MP) sensor with built-in auto focus and iris 3-9mm lens, high dynamic range (HDR) of minimum 120dB with intelligent dynamic noise suppression (iDNR), automatic electronic shutter speed control (AES), sensitivity at minimum lighting conditions of 0.0011 lx in night mode, 0.0075 lx in color mode (30 IRE), has a mechanical filter for real day / night mode, 1080p HD at 30fps maximum, simultaneous triple streaming (2 x H.264 Main Profile and 1 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis for IP cameras with the following functions: reliably detects, monitors and analyzes mobile objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; IP67, IK10 impact protection (BOSCH NIN-73023-A3A or equivalent)	pcs	2	1,112.44	2224.88	Others	Material
5.6	Open Green	VIDEO SURVEILLANCE SYSTEM	Adapter for mounting a dome camera on the wall(BOSCH VDA-832FHD-WMT or equivalent)	pcs	2	135.53	271.06	Others	Material
5.6	Open Green	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	966.18	966.18	Others	Material
5.6	Open Green	ACCESS CONTROL SYSTEM	Box for the accommodation of controller with two DIN rails(BOSCH AEC-AMC2-UL2 or equivalent)	pcs	1	143.58	143.58	Others	Material
5.6	Open Green	ACCESS CONTROL SYSTEM	Controller 4 Wiegand with CF card. Intelligent access control for 1 to 4 entrances; 4 interfaces including reader power supply; LCD display for displaying information; Self-controlling send and receive switching; Individual electronic verification of plugs and outputs; Input for an externally connected tamper contact has four connectors for connecting up to four ID card readers; Wiegand interface or equivalent; 512 kB EPROM/FLASH, 256 kB-SRAM, Serial EEPROM,RTC; Pluggable 2 GB compact flash; Battery for SRAM and RTC; Address can be set via DIP switches; 8 relay outputs, 8 controlled analog inputs; IP 30 protection level;BOSCH APC-AMC2-4WCF or equivalent	pcs	1	842.72	842.72	Others	Material
5.6	Open Green	ACCESS CONTROL SYSTEM	External power supply with incorporated UPS. BOSCH APS-PBC-60 or equivalent	pcs	1	198.60	198.60	Others	Material
5.6	Open Green	ACCESS CONTROL SYSTEM	Battery for additional power supply 12V/7.2 Ah	pcs	2	28.18	56.36	Others	Material
5.6	Open Green	ACCESS CONTROL SYSTEM	Compact Wiegand Mifare/iClass reader with beeper and multicolored LED display Plastic-coated, for indoor and outdoor mounting Current consumption 65 mA/average, 225 mA maximum; IP55 protection level (BOSCH ARD-AYBS6260 or equivalent)	pcs	3	97.96	293.88	Others	Material
5.6	Open Green	ACCESS CONTROL SYSTEM	"Request-to-exit" button with key icon (surface wall mounted)BOSCH 4710760047 or equivalent	pcs	3	37.57	112.71	Others	Material
5.6	Open Green	ACCESS CONTROL SYSTEM	"EMERGENCY EXIT" button to release all the doors in case of emergency, complete with junction box equipped with a series terminal for parallel separation of the system cables, halogen-free CQR EP2/GB/EDB or equivalent	pcs	3	37.57	112.71	Others	Material
5.6	Open Green	ACCESS CONTROL SYSTEM	Electromagnetic door holder, 12/24Vdc, maximum load of 300kg. With a door status indicator	pcs	3	120.77	362.31	Others	Material
5.6	Open Green	ACCESS CONTROL SYSTEM	Installation cable, type			-	0.00	Others	Material
5.6	Open Green	ACCESS CONTROL SYSTEM	JH(St)H 2x2x0.8	m	120	0.51	61.20	Others	Material
5.6	Open Green	ACCESS CONTROL SYSTEM	JH(St)H 5x2x0.8	m	120	1.12	134.40	Others	Material
5.6	Open Green	ACCESS CONTROL SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	136.87	136.87	Others	Material
5.6	Open Green	INTRUSION DETECTION SYSTEM	Enclosure kit. Suitable for the main panel (control panel board) DE module, power supply, 2x40 Ah battery and 4xLSN gateway. Includes plates for mounting. BOSCH ICP-MAP0111 or equivalent	pcs	1	303.27	303.27	Others	Material
5.6	Open Green	INTRUSION DETECTION SYSTEM	The main panel supports up to 1,500 addresses, 500 areas and 1,000 users. As part of a Modular Alarm Platform, the main panel with possibility of connection to system for integration of security systems using internet protocol (IP). External CAN bus - total length up to 1000m; the external bus allows command centers, gateways for connections and power supplies which are placed as individual elements, providing greater efficiency. Software version of all devices in the modular platform system can be upgraded or updated using remote control of software. This allows for on-site or remote upgrades or updates (IP through Ethernet). It has VdS certificate.BOSCH ICP-MAP5000-2 or equivalent	pcs	1	925.47	925.47	Others	Material
5.6	Open Green	INTRUSION DETECTION SYSTEM	Gateway module supports up to 127 devices with maximum loop current up to 300 mA. Provides flexible network structures (one loop or two stubs) Provides single fault redundancy on loopconfigurations (not on stub configurations). Provides two auxiliary power outputs (500 mA each)BOSCH ICP-MAP0010 or equivalent	pcs	1	201.29	201.29	Others	Material
5.6	Open Green	INTRUSION DETECTION SYSTEM	Module for connection of communicators. Supports printer connectivity.Provides two RS-232 COM ports. Provides three supervised and programmable outputs for sirens, signal lamps (strobes), and other audio- visual devices. Provides two programmable open-collector outputs.BOSCH ICP-MAP0007-2 or equivalent	pcs	1	175.79	175.79	Others	Material
5.6	Open Green	INTRUSION DETECTION SYSTEM	Power supply 150W. Provides two independent power ports with fixed 28 VDC. Provides 150 W for battery charging and system power. Provides controlled 500 mA, 24 VDC nominal output. Provides two dry relay contacts for AC and DC fault signaling. Supports independent dual battery control. Provides protection of the battery load.BOSCH IPP-MAP0005-2 or equivalent	pcs	1	331.45	331.45	Others	Material
5.6	Open Green	INTRUSION DETECTION SYSTEM	Battery 12V 42AhBOSCH IPS-BAT12V-45AH or equivalent	pcs	2	122.11	244.22	Others	Material
5.6	Open Green	INTRUSION DETECTION SYSTEM	Detector with PIR and microwave detection. Alarm is detected by processing both signals, anti-mask protection function. Flexible mounting height and coverage areaBOSCH ISP-PDL1-WA15G or equivalent	pcs	3	66.63	199.89	Others	Material
5.6	Open Green	INTRUSION DETECTION SYSTEM	Conventional glass break detector, complete with addressable element for connection in a loop. Microprocessor-based sound analysis technology.Automatic environmental noise test, sound check.BOSCH DS1108I and ISP-EM55SM-120 or equivalent	pcs	1	90.70	90.70	Others	Material
5.6	Open Green	INTRUSION DETECTION SYSTEM	Siren, outdoor mounting. Steel enclosure of thickness 1,5 mm tamper proof againt opening cover; charging regulation voltage 13,8VDC, noise level 117dBA.BOSCH IUI-SIR-OD or equivalent	pcs	1	161.03	161.03	Others	Material
5.6	Open Green	INTRUSION DETECTION SYSTEM	Battery 12V 2.2Ah for additional power supply of outdoor siren.BOSCH D1222 or equivalent	pcs	1	48.12	48.12	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	Open Green	INTRUSION DETECTION SYSTEM	Keypad, LCD touch screen 14cm in diagonal. The touch screen provides a durable graphic interface (16B vivid colors with 320 x 240 pixels) consisting of intuitive icons and menus that allow users to access system functions. Users can arm the system or part of the system directly by touching the screen image, disarm, or select other menu options. Built-in speaker with adjustable volume. It has a VdS certificate BOSCH IUI-MAP0001-2 or equivalent.	pcs	3	378.42	1135.26	Others	Material
5.6	Open Green	INTRUSION DETECTION SYSTEM	Installation cable, type JH(St)H 3x2x0.8	m	250	0.87	216.85	Others	Material
5.6	Open Green	INTRUSION DETECTION SYSTEM	Small sundry items and other unspecified Materialandworks	set	1	370.19	370.19	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Addressable Fire Control Panel (Avenar 2000 Premium Bosch or equivalent) that supports EN54 and VdS standard, equipped with the following elements:steel housing (mounting on the wall) with coverpanel rails for the installation of functional modulesbrackel for two batteries and power supply unitpanel controller with operating screen in Serbian language (ability to connect printers)power supply unit, 24 V/5AUSB, CAN, Ethernet interfaces2 x media convertor with 2 10/100BASE-TX ports and all neccesssary equipment for conection of central unit to 4 SM FOSoftware key to allow integration and connection of the control panel under monitoring software by connecting to OPCinterface module for connecting to the workstation- two addressable loop, with the possibility of connection up to 254 LSN elements per loop, maximum loop length 1600 m and maximum consumption per loop 300 mAcontrol module for batteriesmodul for connectig 2 lines of alarm sirensenables allocation of 128 points within the system	pcs	1	7,416.85	7416.85	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	Relay module with 8 low voltage relay outputs (RML0008 A or equivalent)	pcs	1	89.91	89.91	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	Battery, 12 VDC, 40Ah	pcs	4	139.56	558.24	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	Voice dialer (automatic alarm device) programmable through direct connected or remote telephone, provides voice message to any alarm control panel; it has 4 inputs and 2 PGM outputs, 4 telephone pager numbers, 1 installer and 4 user PIN codes, with the length of voice messages 4x15s and 2x30s. Equipped with a battery that provides 72 hours operation in stand-by mode and 0.5h in alarm mode. (VD 710 ParaVox or equivalent)	pcs	1	120.77	120.77	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable optical smoke detector that supports EN54 and VdS standard. Complete with detector mounting base, short-circuit isolator and label. (FAP- 425-O-R, MS 400, TP4 400 or equivalent)	pcs	1	50.99	50.99	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable indoor detector - manual call point thatsupports EN54 and VdS standard (FMC-210-DM-G-R or equivalent)	pcs	1	36.23	36.23	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	Addressable outdoor detector - manuel call point that supports EN54 and VdS standard(FMC-210-DM-H-R or equivalent)	pcs	2	84.54	169.08	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	Outdoor alarm siren that supports EN54 and VdS standard. IP66 (FNM-320-SRD or equivalent)	pcs	1	148.71	148.71	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with two inputs for monitoring the door status, i.e. whether the door is open or closed, within the loop that supports EN54 and VdS standard (FLM-420-I2-W or equivalent)	pcs	1	65.75	65.75	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	Input module with eight inputs for connecting with subsystem central unit within the fire loop that supports EN54 and VdS standard (FLM-420-I8R1-S orequivalent)	pcs	2	134.19	268.38	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	Additional base for fixing the fire detector on non- standard surfaces (concrete beams, roof structure, uneven walls, ...), with all the necessary material	pcs	4	26.02	104.08	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	- optical patch cord E2000/APC - LC duplex G657.A1,length 50m, LSZH	pcs	2	86.00	172.00	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	Installation cable, type:			-	0.00	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	- J-H(St)H 2x2x0,8	m	50	0.51	25.50	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E30	m	80	1.12	89.60	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	- NHXHX 3x1,5 FE180/E90	m	250	1.32	330.00	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	- JE-H(St)H /FE180/E90 5x2x0,8	m	50	1.83	91.50	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø40	m	40	0.99	39.60	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø36	m	500	0.65	325.00	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	- Ø16	m	50	0.28	14.00	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation.	m³	2	50.00	100.00	Others	Material
5.6	Open Green	AUTOMATIC FIRE DETECTION (AFD-FAS)	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	574.90	574.90	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Subsystem central unit for fire alarming and fire exstinguishing managment with two exstinguishing zones, with possibility of connecting four automatic detector and two manual coll point zones, with relay module for activation of alarm devices for exstinguisihing and other executive functions, including power supply unit and backup batteries for system autonomy , 2x12V, 7.2Ah. Central unit musthave VdS attest	pcs	1	1,101.71	1101.71	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Subsystem central unit for fire alarming and fire exstinguishing managment with two exstinguishing zones, with possibility of connecting four automatic detector and two manual coll point zones, with relay module for activation of alarm devices for exstinguisihing and other executive functions, including power supply unit and backup batteries for system autonomy , 2x12V, 7.2Ah. Central unit musthave VdS attest	pcs	1	1,101.71	1101.71	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Conventional optical smoke detector. Includes mounting base, short-circuit isolator and label.	pcs	12	37.57	450.84	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Manual call point for stopping of the exstinguishing	pcs	2	29.52	59.04	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Manual call point for activation of the exstinguishing	pcs	2	29.52	59.04	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Alarm siren with orange flashlight	pcs	2	73.81	147.62	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Warning illuminated panel with inscription "GAS -LEAVE THE ROOM!" or equivalent	pcs	2	92.59	185.18	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Warning illuminated panel with inscription "GAS - DO NOT ENTER!" for indoor mounting or equivalent	pcs	1	92.59	92.59	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Warning illuminated panel with inscription "GAS - DO NOT ENTER!" for outdoor mounting or equivalent	pcs	1	16.10	16.10	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Parallel light indicator	pcs	6	21.47	128.82	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Magnetic contact for monitoring the fire door status,i.e. whether the fire door is open or closed, complete with a permanent magnet. Method of fixing must guarantee the stability of magnetic contact in aggressive environments and under extreme changes in temperature	pcs	2	59.19	118.38	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Aspirational smoke detector for computer racks in room with space for two detection modules. It must enable connection of sufficient number of pipes for sampling and conveying air to highly sensitive smoke detectors. Detector module class A. With tree alarm levels (info, pre-alarm, alarm) for each detector, LED detector status indicator, fault state indicator and power state indicator, max sensitivity 0.005% (light obscuration/m). It must perform constant monitoring of flow trough pipes thus controlling the state of sampling pipes and cleanness of the sampling holes. The fan should have a min. 2 speeds. With LAN network card, integrated memory for incident storage. Comes with smoke detectors, filter modules, suction tubes, knees, suction set and other necessary equipment. The detector should meet EN54-20 class A, B,C and have VdS attestation	pcs	1	4,406.83	4406.83	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Cabinet for powering the aspiration detector, in accordance with EN54. Temperature and time controlled battery charging process. Outputs with fuses. The cabinet contains all necessary travois, power units, automatic fuses, relay cards, input-output modules, beteries ... Kit with accessories for connecting equipment and wall mounting. Powering process overseen by system's central unit via dedicated addressable modules in the loop. (BOSCH FPP-5000 or equivalent)	pcs	1	1,054.74	1054.74	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Installation cable, type:			-	0.00	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- J-H(St)H 2x2x0.8	m	100	0.51	51.00	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- JH(St)H 5x2x0.8	m	20	1.12	22.40	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- NHXHX 3x1,5 FE180/E30	m	50	1.12	56.00	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- NHXHX 3x1,5 FE180/E90	m	80	1.32	105.60	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- JE-H(St)H /FE180/E90 2x2x0,8	m	150	1.83	274.50	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building): (Dietzel Univolt FX) or equivalent. Inner diameter:			-	0.00	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø40	m	10	0.99	9.90	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø36	m	200	0.65	130.00	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	- Ø16	m	50	0.28	14.00	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	A fire stop compound that makes a compact unit with fire bar from the aspect of the required fire resistance, with the appropriate attestation, in accordance with the applicable legislation	m^2	2	50.00	100.00	Others	Material
5.6	Open Green	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT	Small sundry installation Material(truss screws, U-clamps, expansion shields...)	set	1	203.97	203.97	Others	Material
5.6	BRIDGE x 5	VIDEO SURVEILLANCE SYSTEM	Fixed IP ONVIF Day / Night 5Mpix camera, 1 / 1.8 "CMOS sensor 6.1MP; High Dynamic Range (HDR) of minimum 110dB with Intelligent Dynamic Noise Suppression (iDNR) backlight and headlight suppression, Intelligent Auto Exposure (IAE); Anti- Fog; sensitivity at min. Lighting conditions 0.004 lux in night mode, 0.0121 lux in color mode (30 IRE); Has a mechanical filter for a real day / night mode; 5Mpix at 30fps maximum, simultaneous quadruple streaming (2 x H.264 Main Profile and 2 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis on IP cameras, with the following functions: reliably detects, monitors and analyzes moving objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; (BOSCH NBN-80052-BA or equivalent)	pcs	20	2,147.06	42941.20	Others	Material
5.6	BRIDGE x 5	VIDEO SURVEILLANCE SYSTEM	Varifocal megapixel lens IR corrected lens. 1 / 1.8 "sensor; CS-mount; 4-pin SR-iris; 5MP; 4.1 to 9 mm; F1.6 to F8 (Bosch LVF-5005C-S4109 or equivalent)	pcs	20	281.80	5636.00	Others	Material
5.6	BRIDGE x 5	VIDEO SURVEILLANCE SYSTEM	Aluminum enclosure for outdoor mounting for Day / Night IP cameras, with heater, fan and shader and with tamper protection, power supply PoE 823.at (with camera) IP66, IK10. (BOSCH UHO-POE-10 or equivalent)	pcs	20	348.90	6978.00	Others	Material
5.6	BRIDGE x 5	VIDEO SURVEILLANCE SYSTEM	Mounting bracket, bent, for housing and camera, for wall mounting with internal cable passage, with all necessary Materialand fixing works (BOSCH LTC 9215/00 or equivalent)	pcs	20	80.51	1610.20	Others	Material
5.6	BRIDGE x 5	VIDEO SURVEILLANCE SYSTEM	Pole mount adapter for mounting brackets (BOSCHLTC 9213/01 or equivalent)	pcs	20	68.44	1368.80	Others	Material
5.6	BRIDGE x 5	VIDEO SURVEILLANCE SYSTEM	Full HD1080P IP PTZ camera. 1 / 2.8 " CMOSSensor (2.38 MP). Features include: High Dynamic Range (HDR) of minimum 120dB with Intelligent Dynamic Noise Suppression (iDNR) for maximum picture quality. Daily mod 0.0077 lux; Night mode 0.0008 lux. 30X optical and 12X digital zoom with digital image stabilizer, 360 ° continuous rotation with up to 256 preset positions up to 400 ° / s, 4 lines of which two H.264 dual streaming compression, SD local storage of archives up to 2TB. Advanced features include street lighting suppression for better color recognition, Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics, Anti-Fog. Built in video content analysis. IP66 protection, NEMA 4X, IK8. (BOSCH NDP-7512-Z30, BOSCH VG4-A-9541 VG4-A-PA2 (220VAC) or equivalent)	pcs	10	5,904.40	59044.00	Others	Material
5.6	BRIDGE x 5	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	set	5	966.18	4830.90	Others	Material
5.6	TK CABINET FOR MECHANICAL	VIDEO SURVEILLANCE SYSTEM	Fixed IP ONVIF Day / Night 5Mpix camera, 1 / 1.8 "CMOS sensor 6.1MP; High Dynamic Range (HDR) of minimum 110dB with Intelligent Dynamic Noise Suppression (iDNR) backlight and headlight suppression, Intelligent Auto Exposure (IAE); Anti- Fog; sensitivity at min. Lighting conditions 0.004 lux in night mode, 0.0121 lux in color mode (30 IRE); Has a mechanical filter for a real day / night mode; 5Mpix at 30fps maximum, simultaneous quadruple streaming (2 x H.264 Main Profile and 2 x M-JPEG), support for local recording on a microSD memory card up to 2TB; Software license for intelligent video analysis on IP cameras, with the following functions: reliably detects, monitors and analyzes moving objects while suppressing unwanted alarms; recognizes faces in the scene; retrospective forensic search; (BOSCH NBN-80052-BA or equivalent)	pcs	2	2,147.06	4294.12	Others	Material
5.6	TK CABINET FOR MECHANICAL	VIDEO SURVEILLANCE SYSTEM	Varifocal megapixel lens IR corrected lens. 1 / 1.8 "sensor; CS-mount, 4-pin SR-iris; 5MP; 4.1 to 9 mm; F1.6 to F8 (Bosch LVF-5005C-S4109 or equivalent)	pcs	2	281.80	563.60	Others	Material
5.6	TK CABINET FOR MECHANICAL	VIDEO SURVEILLANCE SYSTEM	Aluminum enclosure for outdoor mounting for Day / Night IP cameras, with heater, fan and shader and with tamper protection, power supply PoE 823.at (with camera) IP66, IK10. (BOSCH UHO-POE-10 or equivalent)	pcs	2	348.90	697.80	Others	Material
5.6	TK CABINET FOR MECHANICAL	VIDEO SURVEILLANCE SYSTEM	Mounting bracket, bent, for housing and camera, for wall mounting with internal cable passage, with all necessary Materialand fixing works (BOSCH LTC 9215/00 or equivalent)	pcs	2	80.51	161.02	Others	Material
5.6	TK CABINET FOR MECHANICAL	VIDEO SURVEILLANCE SYSTEM	Pole mount adapter for mounting brackets (BOSCHLTC 9213/01 or equivalent)	pcs	2	68.44	136.88	Others	Material

Volume	Site	System	Item Description	Jed_more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.6	TK CABINET FOR MECHANICAL	VIDEO SURVEILLANCE SYSTEM	Full HD1080P IP PTZ camera 1/2.8 " CMOSSensor (2,38 MP); Features include: High Dynamic Range (HDR) of minimum 120dB with Intelligent Dynamic Noise Suppression (iDNR) for maximum picture quality. Daily mod 0.0077 lux; Night mode 0.0008 lux. 30X optical and 12X digital zoom with digital image stabilizer, 360 ° continuous rotation with up to 256 preset positions up to 400 ° / s, 4 lines of which two H.264 dual streaming compression, SD local storage of archives up to 2TB. Advanced features include street lighting suppression for better color recognition, Advanced Alarm Control, Intelligent Auto Tracking Objects and Intelligent Video Analytics, Anti-Fog. Built in video content analysis. IP66 protection, NEMA 4X, IK8 (BOSCH NDP-7512-Z30, BOSCH VG4-A-3541 VG4-A-PA2 (220VAC) or equivalent)	pcs	2	5,904.40	11808.80	Others	Material
5.6	TK CABINET FOR MECHANICAL	VIDEO SURVEILLANCE SYSTEM	Small sundry items and other unspecified materialand works	sel	2	966.18	1932.36	Others	Material
5.7	Whole Line	COMMON COMMUNICATION NETWORK	NMS operator equipment. It includes two workstations with two 32 " monitors for each	sel	8	1,000.00	8000.00	Others	Material
5.7	Whole Line	VoIP COMMUNICATION SYSTEM	NMS operator equipment. It includes two workstations with two 32 " monitors for each	sel	4	1,000.00	4000.00	Others	Material
5.7	Whole Line	VoIP COMMUNICATION SYSTEM	NMS extension (include Licenses for extension)	sel	1	1,341.91	1341.91	Others	Material
5.7	Whole Line	VoIP COMMUNICATION SYSTEM	Commissioning of all equipment (basic functionality with check of all points of the network) - for the entire section	sel	1	3,000.00	3000.00	Others	Material
5.7	Whole Line	VoIP COMMUNICATION SYSTEM	Integration of equipment (basic functionality with check of all points of the network) and testing for the Owner /investor's basic acceptance - for the entire section	sel	1	-	0.00	Others	Material
5.7	Whole Line	VoIP COMMUNICATION SYSTEM	Global acceptance and verification - for the entire section	sel	1	-	0.00	Others	Material
5.7	Whole Line	VoIP COMMUNICATION SYSTEM	User training (for the entire sectio)	sel	1	-	0.00	Others	Material
5.7	Whole Line	PUBLIC ADDRESS SYSTEM	NMS operator equipment. It includes two workstations with two 32 " monitors for each	sel	4	1,000.00	4000.00	Others	Material
5.7	Whole Line	PUBLIC ADDRESS SYSTEM	System configuration, issuing of attestation and Commissioning (for the whole section)	sel	1	2,000.00	2000.00	Others	Material
5.7	Whole Line	PUBLIC ADDRESS SYSTEM	User training (for the entire section)			-	0.00	Others	Material
5.7	Whole Line	CLOCK SYSTEM	NMS operator equipment. It includes two workstations with two 32 " monitors for each	sel	4	1,000.00	4000.00	Others	Material
5.7	Whole Line	CLOCK SYSTEM	System configuration, issuing of attestation and Commissioning (for the whole section)	sel	1	2,000.00	2000.00	Others	Material
5.7	Whole Line	CLOCK SYSTEM	User training (for the entire section)			-	0.00	Others	Material
5.7	Whole Line	INFORMATION DISPLAY SYSTEM	NMS operator equipment. It includes two workstations with two 32 " monitors for each	sel	4	1,000.00	4000.00	Others	Material
5.7	Whole Line	INFORMATION DISPLAY SYSTEM	System configuration, issuing of attestation and Commissioning (for the whole section)	sel	1	2,000.00	2000.00	Others	Material
5.7	Whole Line	INFORMATION DISPLAY SYSTEM	User training (for the entire section)			-	0.00	Others	Material
5.7	Whole Line	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	NMS operator equipment. It includes two workstations with two 32 " monitors for each	sel	4	1,000.00	4000.00	Others	Material
5.7	Whole Line	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	System configuration, issuing of attestation and Commissioning (for the whole section)	sel	1	200,000.00	200000.00	Others	Material
5.7	Whole Line	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	User training (for the entire section)			-	0.00	Others	Material
5.7	Whole Line	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Offered includes everything requested plus: Software package AVIS upgrade: 1. AVIS Upgrade from version 1.0.6/2015 to version 3.0/2021 2. Communication security upgrade between servers and clients 3. Upgrade of solution architecture to support reliable scalability to all sections 4. Prerequisite technology update for version 3.0/2021 - upgrade of Server OS, from Windows 2012 to Windows 2019 - upgrade of application servers - upgrade od Text-To-Speech components - migration from Java JDK to OpenJava JDK - upgrade of Audiovisual Windows Service - upgrade of display AVIS client application 5. High Availability and Disaster Recovery Plan 6. Upgrade and extension of performace monitoring for all elements for the entire section			-	0.00	Others	Material
5.7	Whole Line	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Prerequisite equipment for HA (2 servers (CPU Intel Xeon 16cores, 64GB RAM, 2xSSD 500GB, 2port FC, 2 power supplys),Storage (dual controler FC, RAID 10, SSD 8x1TB, hot spare 1x1TB SSD, 2 power supplys), Windows licence (ServerStandard + 20 CAL), VMware vSphere Essentials Plus Kit 1y support, 2 Switche FC (4xSFP, 8 ports))	SET	1	5,000.00	5000.00	Others	Material
5.7	Whole Line	INTEGRATION OF SECURITY SYSTEMS	License for interconnection of integration software with video management software (compatible with the planned security system in the central station - ownership of the ISR) (BIS-FGEN-BVMS45 or equivalent)	pcs	1	1,689.46	1689.46	Others	Material
5.7	Whole Line	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of the license package for additional 32 ports of the security systems integration system (compatible with the planned security system at the central station - ownership of the ISR) (BOSCH BIS-XACE-32DR45 or equivalent)	pcs	4	1,520.38	6081.52	Others	Material
5.7	Whole Line	INTEGRATION OF SECURITY SYSTEMS	Additional license for one operator place (compatible with the planned security system in the central station - ownership of the ISR) (BOSCH BIS-XGEN-1CU45 or equivalent)	pcs	10	845.40	8454.00	Others	Material
5.7	Whole Line	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of a license for an additional division of the security system integration system (compatible with the planned security system at the central station - ownership of the ISR) (BOSCH BIS-XGEN-1DIV44 or equivalent)	pcs	4	845.40	3381.60	Others	Material
5.7	Whole Line	INTEGRATION OF SECURITY SYSTEMS	Procurement and delivery of the license package for additional 1000 elements of the security system integration system (compatible with the planned security system in the central station - ownership of the ISR)	pcs	4	2,364.45	9457.80	Others	Material
5.7	Whole Line	INTEGRATION OF SECURITY SYSTEMS	NMS operator equipment. It includes two workstations with two 32 " monitors for each	set	4	1,000.00	4000.00	Others	Material
5.7	Whole Line	INTEGRATION OF SECURITY SYSTEMS	System configuration, issuing of attestation and Commissioning (for the whole section)	set	1	2,000.00	2000.00	Others	Material
5.7	Whole Line	INTEGRATION OF SECURITY SYSTEMS	User training (for the entire section)	sel		-	0.00	Others	Material
5.7	Whole Line	ENVIRONMENTAL MONITORING SYSTEM	A server with software that enables centralized management and control of systems in certain locations. Expandable system, initially for 25 devices. (StruxureWare or equivalent)	pcs	1	36,597.55	36597.55	Others	Material
5.7	Whole Line	ENVIRONMENTAL MONITORING SYSTEM	NMS operator equipment. It includes two workstations with two 32 " monitors for each.	set	8	1,000.00	8000.00	Others	Material
5.7	Whole Line	ENVIRONMENTAL MONITORING SYSTEM	System configuration, issuing of attestation and Commissioning (for the whole section)	set	1	2,000.00	2000.00	Others	Material
5.7	Whole Line	ENVIRONMENTAL MONITORING SYSTEM	User training (for the entire section)	sel		-	0.00	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	8	138.88	1111.04	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	8	10.46	83.69	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	48	19.87	953.70	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240G5, HSEMRJ6GWA or equivalent)	pcs	56	121.59	6808.78	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	8	31.75	254.01	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	1544	5.09	7861.57	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	136	9.46	1287.10	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	1	19.87	19.87	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	1	121.59	121.59	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik, HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LSOH (Schrack Technik H6GTG02K0G or equivalent)	pcs	49	5.09	249.49	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	15	9.46	141.96	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik, HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	3	121.59	364.76	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik, HSERU25IGC or equivalent)	pcs	9	31.75	285.77	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LSOH (Schrack Technik H6GTG02K0G or equivalent)	pcs	297	5.09	1512.23	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	15	9.46	141.96	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	30	9.46	283.92	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	7	138.88	972.16	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik, HLP23LC02F or equivalent)	pcs	38	10.46	397.51	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik, HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	10	9.46	94.64	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Freestanding antivandal cabinet for outdoor installation, double walls, corrosion protection housing, IP 65, dimension 800x650x600mm, equipped with sets for mounting 19 "equipment and 19" profiles, 650 mm wide horizontal rails and 600 mm deep horizontal rails and 100 mm high stand, equipped with the following equipment: rings for vertical managment of cables from the front and back of the cabinet, mounting equipment sets, marking labels for marking the patch and power cords, rail for equipotential bonding, power rails with minimum 8 schuko socket outlets in metal housing with cable and switch (Conteg, Conteg VO-P8-80 / 80, Conteg DP-MO-100, Penduit LJSL4-Y3-2.5, Conteg DP-ZE-RAM, Conteg DP-RP-08SCHUS) or equivalent)	pcs	19	5,207.93	98950.76	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Base for installation in concrete with all necessary mounting material	pcs	19	291.20	5532.80	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Air conditioner for sideways installation on the cabinet, power 380W, 230V, with NO thermostat (Conteg AC-WMO-04-400J and ID-EO-TH or equivalent)	pcs	19	-	0.00	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Heater for cabinet, power 250W, fan with flow 48 m3 / h, 230 VAC and NC thermostat (Conteg ID-EH-50F-4, Conteg ID-EO-TC or equivalent)	pcs	19	-	0.00	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- steel rail DIN width 35mm	m	22.8	4.48	102.14	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	19	138.88	2638.72	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik, HLP23LC02F or equivalent)	pcs	38	10.46	397.51	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik, HLP23LL10F or equivalent)	pcs	19	19.87	377.51	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	19	121.59	2310.12	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LSOH (Schrack Technik H6GTG02K0G or equivalent)	pcs	456	5.09	2321.81	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	76	9.46	719.26	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM, pigtails 2m long, with 12 E2000/APC compact adapters	kom	1	138.88	138.88	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik, HLP23LL10F or equivalent)	pcs	1	19.87	19.87	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	2	121.59	243.17	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik, HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LSOH (Schrack Technik H6GTG02K0G or equivalent)	pcs	73	5.09	371.69	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	8	9.46	75.71	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	45x45mm adapter for installation in parapet and/or flush wall mounted socket and/or floor socket and/or set, complete with a support for the installed module for structured cabling system (Schrack Technik HSEMD02W2F or equivalent)	pcs	155	0.92	142.60	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Shielded micro socket cat.6a for the installation in structured cabling system socket (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	310	4.57	1416.70	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Single surface wall mounted socket for the installation in suspended ceiling for IP equipment (Schrack Technik HSEAP842WF TOOLLESS LINE, HSED01UW2S TOOLLESS or equivalent)	pcs	82	2.54	208.27	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in suspended ceiling for IP equipment (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	1	4.57	4.57	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat.6A, length 2m, LSOH (Schrack Technik H6GTG02K0G or equivalent)	pcs	1	5.09	5.09	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Single socket for installation in the housing of IP equipment devices (Schrack Technik HSEAP842WF TOOLLESS LINE, HSED01UW2S TOOLLESS or equivalent)	pcs	180	2.54	457.20	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in the housing of IP equipment devices (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	15	4.57	68.55	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat.6A, length 2m, LSOH (Schrack Technik H6GTG02K0G or equivalent)	pcs	15	5.09	76.36	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Fiber optic cable for underground laying, with 8 OM3 fibers, with rodent protection, for direct burial, with PE jacket	m	8000	0.47	3734.69	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	PE pipe Ø 40mm for the installation of fiber optic cable	m	8000	0.65	5196.80	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Coupling for plastic pipes PE Ø 40mm	pcs	30	1.81	54.30	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Plug for PE pipe Ø 40mm	pcs	20	0.23	4.53	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	TK 59 M 15x4x0.8	m	600	2.86	1714.29	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, external	m	11000	0.85	9333.33	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, halogen free	m	18000	0.63	11273.04	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 10x2x0.8	m	20	3.00	60.00	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 2x2x0.8	m	50	0.70	34.99	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Network IP address application and planning	set	1	9,585.13	9585.13	Others	Material
5.7	Novi Sad	VoIP COMMUNICATION SYSTEM	Local VoIP exchange for 200 "voice" users, expandable up to 1000 (eSpace U1960 or equivalent)	set	1	31,235.64	31235.64	Others	Material
5.7	Novi Sad	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 16 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	sel	2	1.774.47	3548.94	Others	Material
5.7	Novi Sad	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 8 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	set	1	888.99	888.99	Others	Material
5.7	Novi Sad	VoIP COMMUNICATION SYSTEM	The basic type of IP phone 320x240 pixels with 2.83 "color LCD monitor. Provides 3 lines, 10 programmable and 4 fixed buttons (with LED indication). Speaker / Headset / Mute / Navigation 2 GE ports (10/100/1000). Comes with an adapter. (eSpace 7910 or equivalent)	pcs	50	547.61	27380.50	Others	Material

Volumo	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Novi Sad	VoIP COMMUNICATION SYSTEM	A more complex type of IP phone. 800x480 pixels with 5 "LCD color monitor. Provides 6 lines, 1 Bluetooth and up to 3 extensions with 40 programmable buttons (with LED indication). 2 GE ports (10/100/1000). Includes adaptor (eSpace 7950 or equivalent)	pcs	10	913.58	9135.80	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Call station with speaker and microphone on a flexible neck, with one "all call" function key, light indication. It supports redundant connections with the rest of the public address system. It is possible to configure the call station from the network controller. Any malfunction is controlled by the controller and in case of a failure of the controller it is possible to continue the announcement of evacuation messages (LBB 4430/00 or equivalent)	pcs	1	464.30	464.30	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Keypad for the call station with a minimum of 5 programmable keys, light indication. The keys can be programmed to select the sound source, control the call activation, sound volume, area and group selection, etc. (LBB4432/00 or equivalent)	pcs	1	237.52	237.52	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Ceiling speaker for indoor installation in suspended ceiling, compliant to EN54, IP21 (dimension adjusted with lower ceiling) - Rated power 6W / 100V with leads 6/3 / 1,5 / 0,75W- SPL (1m / 1W / 1kHz) 89dB-angle of coverage 1kHz/4kHz 180°/62°- frequency range 70Hz- 20kHz,includes protection boxes and all mounting accessories (LC1-UM06E8, LC1-CMR, LC1-CBB or equivalent)		23	60.39	1388.97	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Column loudspeaker for external mounting, supports EN54- rated power 60W/100V with leads. 60/30/15W- SPL (1m / 1W / 1kHz) 97dB- vertical angle of radiation (1kHz / 4kHz) 55°/18°- horizontal angle of radiation (1kHz / 4kHz) 170°/90° - frequency range 190Hz-20kHz,includes all protective and pole/wall mounting accessories. (LBC3211/00 or equivalent)		79	630.70	49825.30	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Horn, IP 65, complete with driver- rated power 30W/100V with leads 30/15/7,5W- vertical angle of radiation (1kHz / 4kHz) 90°/118°- horizontal angle of radiation (1kHz / 4kHz) 65°- SPL (1m / 1W / 1kHz) 100dB- frequency range 212Hz- 20kHzIncludes all protective and mounting accessories (LH1-UC30F or equivalent)	pcs	22	228.12	5018.64	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Waterproof distribution box equipped with a serial terminal for parallel separation of the installation	pcs	100	20.13	2013.00	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Distribution box equipped with serial terminals for parallel separation of the installation without halogen elements	pcs	40	20.13	805.20	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Attenuator 12W / 100V for wall mounting, with connection box with terminals for 1.5mm²	pcs	1	53.75	53.75	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Attenuator 30W/100V for wall mounting, with connection box with terminals for 1.5mm²	pcs	1	59.04	59.04	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Attenuator 100W/100V for wall mounting, with connection box with terminals for 1.5mm²	pcs	1	127.48	127.48	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Network audio controller, controls and routes up to 28 audio channels, powers the system's peripherals; minimum 4 audio inputs and 4 audio outputs, setting via PC, with LCD display, up to 256 priorities. It controls hundreds of zones and at least 30 other audio network devices. Audio messages can be downloaded from a computer in wave format. It has the possibility of audio processing for all audio outputs and inputs - parametric equalizer, limiter and gain are easily set using configuration software. It supports redundant connections with computer and audio network. Controls the status of equipment in the public address system and stores a minimum of 200 error messages. Monitoring of audio connections. In set with all needed software. Installation in 19" rack, (PRS-NCO3, PRS-[illegible])	pcs	1	3,849.94	3849.94	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	500W power output amplifier with automatic volume control, redundant network connection, audio processing and delay configuration for each channel amplifier. LCD display, 8 control inputs and 4 control outputs, two zones. Each control input has the ability to control open connections and short circuits. Control outputs are programmable. Supports standard EN 54, mounting in 19 "rack (BOSCH PRS-2P250, LBB4440/00, LBB4443/00, Bosch LBB4416/00 or equivalent)	pcs	5	2,618.07	13090.35	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	500W power output amplifier with automatic volume control, redundant network connection, audio processing and delay configuration for each channel amplifier, LCD display, 8 control inputs and 4 control outputs, four zones. Each control input has the ability to control open connections and short circuits. Control outputs are programmable. Supports standard EN 54, mounting in 19 "rack (BOSCH PRS-4P125, LBB4440/00, LBB4443/00, Bosch LBB4416/00 or equivalent)	pcs	6	2,848.87	17093.22	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Network interface for real-time uncompressed digital audio distribution over industry standard IP networks. Contains two optical network connections, Two RJ45 Ethernet connectors (long distance audio distribution), 8 supervised control inputs and 5 control outputs with the possibility of installation in 19 " rack. The unit is self-monitoring and continually reports its status to the network controller. It can also route audio channels between itself and other interfaces, in the same or in other audio system networks over WAN, or to third party units. Fully programmable and controlable over audio controller. Media transport and system control can run in encrypted mode for secure applications. Contains DSP processor and display for VU meter. Supports EN 54 standard (PRS-4OMI4 or equivalent)	pcs	1	2,458.38	2458.38	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	An ambient microphone (LBB 9600/20 or equivalent) with a mounting bracket	pcs	16	88.57	1417.12	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	System cable 2m, (LBB 4416/02 or equivalent)	pcs	6	44.28	265.68	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	System cable 10m, (LBB 4416/10 or equivalent)	pcs	2	97.96	195.92	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	System cable 50m, (LBB 4416/50 or equivalent)	pcs	1	351.58	351.58	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Equipment needed to connect the system cables (LBB 4417/00, or equivalent)	set	1	148.95	148.95	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiYCY 2x2.5mm²	m	1600	1.10	1760.00	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiHCH 2x2.5mm²	m	460	1.20	552.00	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiYCY 3x2.5mm²	m	350	1.80	630.00	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiHCH 3x2.5mm²	m	70	1.80	126.00	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Installation cable, type:- microphone cable halogen free	m	200	2.30	460.00	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Installation cable, type:- microphone cable external installation	m	800	11.00	8800.00	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Small sundry items and other unspecified Material and works	set	1	203.97	203.97	Others	Material
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Broadcast sound field test and display content debugging	set	1	500.00	500.00	Others	Material with service
5.7	Novi Sad	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, indoor mounted. Dial diameter 30cm (Bodet PROFIL 930 NTP or equivalent)	pcs	26	303.27	7885.02	Others	Material
5.7	Novi Sad	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED illumination. (Bodet PROFIL 960E SE NTPor equivalent)	pcs	1	2,737.50	2737.50	Others	Material
5.7	Novi Sad	CLOCK SYSTEM	Double-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED illumination (2xBodet PROFIL 960E SE NTP or equivalent)	pcs	8	4,159.92	33279.36	Others	Material
5.7	Novi Sad	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 30cm, indoor mounting. With all the necessary Materialand works	pcs	26	93.93	2442.18	Others	Material
5.7	Novi Sad	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 60cm, outdoor mounting. With all the necessary Materialand works	pcs	9	308.64	2777.76	Others	Material
5.7	Novi Sad	CLOCK SYSTEM	Small sundry items and other unspecified Materialand works	set	1	442.83	442.83	Others	Material
5.7	Novi Sad	INFORMATION DISPLAY SYSTEM	TFT information display for indoor mounting, E-LED illumination, size 32", format 16:9 (IP20). Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 350 cd/m², contrast 3000:1, backlight. Integrated industrial PC. (CONRAC 6132 PD or equivalent)	pcs	4	2,500.00	10000.00	Others	Material
5.7	Novi Sad	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 42", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 700 cd/m², contrast 1300:1, backlight. Integrated industrial PC. (CONRAC 6942PD or equivalent)	pcs	1	2,500.00	2500.00	Others	Material
5.7	Novi Sad	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 32", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 450 cd/m², contrast 1300:1, backlight. Integrated industrial PC. (CONRAC 6932PD or equivalent)	pcs	16	2,500.00	40000.00	Others	Material
5.7	Novi Sad	INFORMATION DISPLAY SYSTEM	Bracket for mounting the single-sided information display with all necessary materials.	pcs	5	656.00	3280.00	Others	Material
5.7	Novi Sad	INFORMATION DISPLAY SYSTEM	Bracket for mounting the double-sided information display with all necessary materials.	pcs	8	1,308.00	10464.00	Others	Material
5.7	Novi Sad	INFORMATION DISPLAY SYSTEM	Small sundry items and other unspecified Materialand works	set	1	800.00	800.00	Others	Material

Volumo	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Novi Sad	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Novi Sad	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	1	18.79	18.79	Others	Material
5.7	Novi Sad	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	1	56.36	56.36	Others	Material
5.7	Novi Sad	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Novi Sad	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	1	8.05	8.05	Others	Material
5.7	Novi Sad	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	set	1	406.60	406.60	Others	Material
5.7	Novi Sad	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	set	1	203.97	203.97	Others	Material
5.7	Novi Sad	TWO-WAY COMMUNICATION MICROPHONE SYSTEM	Set for hands-free two-way communication on counters composed of central unit and sub unit. Adapted to integrated with induction loop system for hearing assistance . In a set with power unit and all installation cable and equipment. (ATEIS Magelan Compact or equivalent)	sel	7	1,650.55	11553.85	Others	Material
5.7	Novi Sad	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the infrastructure of Serbian Railways)	pcs	1	2,000.00	2000.00	Others	Material
5.7	Novi Sad	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	pcs	1	2,000.00	2000.00	Others	Material
5.7	Novi Sad	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Distribution cabinet for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with following elements:	pcs	1	136.00	136.00	Others	Material with service
5.7	Novi Sad	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- disconnection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material with service
5.7	Novi Sad	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- connection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material with service
5.7	Novi Sad	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- marking block	pcs	2	6.55	13.10	Others	Material with service
5.7	Novi Sad	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- fuse module 10x2 10KA / 10A	pcs	2	19.22	38.44	Others	Material with service
5.7	Novi Sad	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- mechanical earthing drains	pcs	4	8.64	34.56	Others	Material with service
5.7	Novi Sad	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø40	m	10	1.90	19.00	Others	Material with service
5.7	Novi Sad	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø36	m	50	1.90	95.00	Others	Material with service
5.7	Novi Sad	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Installation cable, type:- J-H(St)H 10x2x0,8	m	80	3.00	240.00	Others	Material with service
5.7	Novi Sad	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Small sundry items and other unspecified material and works	set	1	440.15	440.15	Others	Material with service
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	2	10.46	20.92	Others	Material with service
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	6	19.87	119.21	Others	Material with service
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	6	121.59	729.51	Others	Material with service
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	2	31.75	63.50	Others	Material with service
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	200	5.09	1018.34	Others	Material with service
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	24	9.46	227.14	Others	Material with service
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM pigtails 2m long, with 12 E2000/APC compact adapters	kom	2	138.88	277.76	Others	Material with service
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified material and works	set	1	450.88	450.88	Others	Material with service
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	60	5.09	305.50	Others	Material with service
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	2	31.75	63.50	Others	Material with service
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	6	9.46	56.78	Others	Material with service
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Call station with speaker and microphone on a flexible neck, with one "all call" function key, light indication. It supports redundant connections with the rest of the public address system. It is possible to configure the call station from the network controller. Any malfunction is controlled by the controller and in case of a failure of the controller it is possible to continue the announcement of evacuation messages (LBB 4430/00 or equivalent)	pcs	1	464.30	464.30	Others	Material with service
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Keypad for the call station with a minimum of 5 programmable keys, light indication. The keys can be programmed to select the sound source, control the call activation, sound volume, area and group selection, etc. (LBB4432/00 or equivalent)	pcs	2	237.52	475.04	Others	Material with service
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Network audio controller, controls and routes up to 28 audio channels, powers the system's peripherals; minimum 4 audio inputs and 4 audio outputs, setting via PC, with LCD display, up to 256 priorities. It controls hundreds of zones and at least 30 other audio network devices. Audio messages can be downloaded from a computer in wave format. It has the possibility of audio processing for all audio outputs and inputs - parametric equalizer, limiter and gain are easily set using configuration software. It supports redundant connections with computer and audio network. Controls the status of equipment in the public address system and stores a minimum of 200 error messages. Monitoring of audio connections. In set with all needed software. Installation in 19" rack, (PRS-NCO3, PRS-SWCSL-E PC or equivalent)	pcs	1	3,849.94	3849.94	Others	Material with service

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Network interface for real-time uncompressed digital audio distribution over industry standard IP networks. Contains two optical network connections. Two RJ45 Ethernet connectors (long distance audio distribution), 8 supervised control inputs and 5 control outputs with the possibility of installation in 19 " rack. The unit is self-monitoring and continually reports its status to the network controller. It can also route audio channels between itself and other interfaces, in the same or in other audio system networks over WAN, or to third party units. Fully programmable and controlable over audio controller. Media transport and system control can run in encrypted mode for secure applications. Contains DSP processor and display for VU meter. Supports EN 54 standard (PRS-4OMI4 or equivalent)	pcs	1	2,458.38	2458.38	Others	Material with service
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Workstations with one 32 " monitor for each On-duty staff room	pcs	1	1,000.00	1000.00	Others	Material with service
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Software with a graphical interface for the operator with an overview of the zones. Supports a variety of audio subsystems, call control and BGM. Allows you to start and end the call. Multiple calls simultaneously can be active from the same client application. Selecting different BGM channels and volume can be controlled and changed by zone. (PRS-CSC-E PC Call Station Client or equivalent)	pcs	1	289.85	289.85	Others	Material with service
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Interface for transition from system cable to optical cable (PRS-FINS or equivalent)	pcs	4	724.63	2898.52	Others	Material with service
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	- optical patch cord E2000/APC - LC duplex G657.A1, length 50m, LSZH	pcs	4	30.00	120.00	Others	Material with service
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	System cable 2m, (LBB 4416/02 or equivalent)	pcs	1	44.28	44.28	Others	Material with service
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	System cable 10m, (LBB 4416/10 or equivalent)	pcs	2	97.96	195.92	Others	Material with service
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	System cable 50m, (LBB 4416/50 or equivalent)	pcs	2	351.58	703.16	Others	Material with service
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Equipment needed to connect the system cables (LBB 4417/00, or equivalent)	set	1	148.95	148.95	Others	Material with service
5.7	Novi Sad	PUBLIC ADDRESS SYSTEM	Small sundry items and other unspecified material and works	set	1	203.97	203.97	Others	Material with service
5.7	Novi Sad	ENVIRONMENTAL MONITORING SYSTEM	Workstations with two 32 " monitors for each On-duty staff room	set	1	1,000.00	1000.00	Others	Material with service
5.7	Novi Sad	INTEGRATION OF SECURITY SYSTEMS	Workstations with two 32 " monitors for each On-duty staff room	set	1	1,000.00	1000.00	Others	Material with service
5.7	Novi Sad	INTEGRATION OF SECURITY SYSTEMS	Parallel panel (FMR 5000 or equivalent)	pcs	1	668.27	668.27	Others	Material with service
5.7	Novi Sad	INTEGRATION OF SECURITY SYSTEMS	- system cable for parallel panel	m	30	2.68	80.40	Others	Material with service
5.7	Novi Sad	COMMON COMMUNICATION NETWORK	Distribution cabinet (PO-TK 1,2) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, mounting frames for modules, equipped with tree connection and two disconnection modules 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, tree fuse modules 10x2 10KA / 10A and five mechanical earthing drains	pcs	3	95.03	285.09	Others	Material with service
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657.A1, length 50m, LSZH	pcs	6	86.00	516.00	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	3	121.59	364.76	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	97	5.09	493.89	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	12	9.46	113.57	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	45x45mm adapter for installation in parapet and/or flush wall mounted socket and/or floor socket and/or sel, complete with a support for the installed module for structured cabling system (Schrack Technik HSEMD02W2F or equivalent)	pcs	19	0.92	17.48	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Shielded micro socket cat.6a for the installation in structured cabling system socket (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	38	4.57	173.66	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Single socket for installation in the housing of IP equipment devices (Schrack Technik HSEAP842WF TOOLLESS LINE, HSED01UW2S TOOLLESS or equivalent)	pcs	14	2.54	35.56	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in the housing of IP equipment devices (Schrack Technik HSEMBJ6GWA or equivalent)	pcs	1	4.57	4.57	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	1	5.09	5.09	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, external	m	500	0.85	424.24	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, halogen free	m	2500	0.63	1565.70	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 10x2x0.8	m	20	3.00	60.00	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 2x2x0.8	m	50	0.70	34.99	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	sel	1	450.88	450.88	Others	Material
5.7	Sajlovo	COMMON COMMUNICATION NETWORK	Network IP address application and planning	set	1	-	0.00	Others	Material with service
5.7	Sajlovo	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 16 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	sel	1	1,774.47	1774.47	Others	Material
5.7	Sajlovo	VoIP COMMUNICATION SYSTEM	The basic type of IP phone. 320x240 pixels with 2.83 "color LCD monitor. Provides 3 lines, 10 programmable and 4 fixed buttons (with LED indication), Speaker / Headset / Mute / Navigation. 2 GE ports (10/100/1000). Comes with an adapter. (eSpace 7910 or equivalent)	pcs	1	547.61	547.61	Others	Material
5.7	Sajlovo	VoIP COMMUNICATION SYSTEM	A more complex type of IP phone. 800x480 pixels with 5 "LCD color monitor. Provides 6 lines, 1 Bluetooth and up to 3 extensions with 40 programmable buttons (with LED indication). 2 GE ports (10/100/1000). Includes adapter (eSpace 7950 or equivalent)	pcs	1	913.58	913.58	Others	Material
5.7	Sajlovo	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, indoor mounted. Dial diameter 30cm (Bodet PROFIL 930 NTP or equivalent)	pcs	3	303.27	909.81	Others	Material
5.7	Sajlovo	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 30cm, indoor mounting. With all the necessary Materialand works	pcs	3	93.93	281.79	Others	Material
5.7	Sajlovo	CLOCK SYSTEM	Small sundry items and other unspecified Materialand works	sel	1	73.81	73.81	Others	Material
5.7	Sajlovo	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 24 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBCD0150 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Sajlovo	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	2	18.79	37.58	Others	Material
5.7	Sajlovo	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	2	56.36	112.72	Others	Material
5.7	Sajlovo	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	10	126.14	1261.40	Others	Material
5.7	Sajlovo	ENVIRONMENTAL MONITORING SYSTEM	Temperature and humidity sensor (AP9335TH or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Sajlovo	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	4	8.05	32.20	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.7	Sajlovo	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	sel	1	406.60	406.60	Others	Material
5.7	Sajlovo	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	sel	1	203.97	203.97	Others	Material
5.7	Sajlovo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Distribution cabinet for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with following elements:	pcs	1	136.00	136.00	Others	Material
5.7	Sajlovo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- disconnection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Sajlovo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- connection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Sajlovo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- marking block	pcs	2	6.55	13.10	Others	Material
5.7	Sajlovo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- fuse module 10x2 10KA / 10A	pcs	2	19.22	38.44	Others	Material
5.7	Sajlovo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- mechanical earthing drains	pcs	4	8.64	34.56	Others	Material
5.7	Sajlovo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø40	m	10	1.90	19.00	Others	Material
5.7	Sajlovo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø36	m	50	1.90	95.00	Others	Material
5.7	Sajlovo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Installation cable, type:- J-H(St)H 10x2x0,8	m	80	3.00	240.00	Others	Material
5.7	Sajlovo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Small sundry items and other unspecified Materialand works	sel	1	440.15	440.15	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH		6	86.00	516.00	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	3	121.59	364.76	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat 6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	97	5.09	493.89	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	12	9.46	113.57	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	45x45mm adapter for installation in parapet and/or flush wall mounted socket and/or floor socket and/or set, complete with a support for the installed module for structured cabling system (Schrack Technik HSEMD02W2F or equivalent)	pcs	19	0.92	17.48	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Shielded micro socket cat 6a for the installation in structured cabling system socket (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	38	4.57	173.66	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Single socket for installation in the housing of IP equipment devices (Schrack Technik HSEAP842WF TOOLLESS LINE, HSED01UW2S TOOLLESS or equivalent)	pcs	14	2.54	35.56	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in the housing of IP equipment devices (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	1	4.57	4.57	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	1	5.09	5.09	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	sel	1	450.88	450.88	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, external	m	500	0.85	424.24	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, halogen free	m	2500	0.63	1565.70	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 10x2x0.8	m	20	3.00	60.00	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 2x2x0.8	m	50	0.70	34.99	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	sel	1	450.88	450.88	Others	Material
5.7	Rumenak	COMMON COMMUNICATION NETWORK	Network IP address application and planning	sel	1	-	0.00	Others	Material
5.7	Rumenak	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 16 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	sel	1	1,774.47	1774.47	Others	Material
5.7	Rumenak	VoIP COMMUNICATION SYSTEM	The basic type of IP phone, 320x240 pixels with 2.83 "color LCD monitor. Provides 3 lines, 10 programmable and 4 fixed buttons (with LED indication), Speaker / Headset / Mute / Navigation. 2 GE ports (10/100/1000). Comes with an adapter. (eSpace 7910 or equivalent)	pcs	1	547.61	547.61	Others	Material
5.7	Rumenak	VoIP COMMUNICATION SYSTEM	A more complex type of IP phone. 800x480 pixels with 5 "LCD color monitor. Provides 6 lines, 1 Bluetooth and up to 3 extensions with 40 programmable buttons (with LED indication). 2 GE ports (10/100/1000). Includes adapter (eSpace 7950 or equivalent)	pcs	1	913.58	913.58	Others	Material
5.7	Rumenak	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, indoor mounted. Dial diameter 30cm. (Bodet PROFIL 930 NTP or equivalent)	pcs	3	303.27	909.81	Others	Material
5.7	Rumenak	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 30cm, indoor mounting. With all the necessary Materialand works	pcs	3	93.93	281.79	Others	Material
5.7	Rumenak	CLOCK SYSTEM	Small sundry items and other unspecified Materialand works	set	1	73.81	73.81	Others	Material
5.7	Rumenak	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 24 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Rumenak	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	2	18.79	37.58	Others	Material
5.7	Rumenak	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	2	56.36	112.72	Others	Material
5.7	Rumenak	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	10	126.14	1261.40	Others	Material
5.7	Rumenak	ENVIRONMENTAL MONITORING SYSTEM	Temperature and humidity sensor (AP9335TH or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Rumenak	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	4	8.05	32.20	Others	Material
5.7	Rumenak	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	set	1	406.60	406.60	Others	Material
5.7	Rumenak	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	sel	1	203.97	203.97	Others	Material
5.7	Rumenak	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Distribution cabinet for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with following elements:	pcs	1	136.00	136.00	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Rumenak	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- disconnection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Rumenak	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- connection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Rumenak	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- marking block	pcs	2	6.55	13.10	Others	Material
5.7	Rumenak	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- fuse module 10x2 10KA / 10A	pcs	2	19.22	38.44	Others	Material
5.7	Rumenak	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- mechanical earthing drains	pcs	4	8.64	34.56	Others	Material
5.7	Rumenak	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø40	m	10	1.90	19.00	Others	Material
5.7	Rumenak	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø36	m	50	1.90	95.00	Others	Material
5.7	Rumenak	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Installation cable, type:- J-H(St)H 10x2x0.8	m	80	3.00	240.00	Others	Material
5.7	Rumenak	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Small sundry items and other unspecified Materialand works	set	1	440.15	440.15	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	3	138.88	416.64	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	12	10.46	125.53	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	4	19.87	79.48	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH		6	86.00	516.00	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	3	121.59	364.76	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	97	5.09	493.89	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	14	9.46	132.50	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	1	121.59	121.59	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	24	5.09	122.20	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	9	9.46	85.18	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Freestanding antivandal cabinet for outdoor installation, double walls, corrosion protection housing, IP 65, dimension 800x650x600mm, equipped with sets for mounting 19 "equipment and 19" profiles, 650 mm wide horizontal rails and 600 mm deep horizontal rails and 100 mm high stand, equipped with the following equipment: rings for vertical managment of cables from the front and back of the cabinet, mounting equipment sets, marking labels for marking the patch and power cords, rail for equipotential bonding, power rails with minimum 8 schuko socket outlets in metal housing with cable and switch (Conteg, Conteg VO-P8-80 / 80, Conteg DP-MO-100, Penduit LJSL4-Y3-2.5, Conteg DP-ZE-RAM, Conteg DP-RP-08SCHUS) or equivalent)	pcs	5	5,207.93	26039.67	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Base for installatidn in concrete with all necessary mounting material	pcs	5	291.20	1456.00	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Air conditioner for sideways installation on the cabinet, power 380W, 230V, with NO thermostat (Conteg AC-WMO-04-400J and ID-EO-TH or equivalent)	pcs	5	-	0.00	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Heater for cabinet, power 250W, fan with flow 48 m3 / h, 230 VAC and NC thermostat (Conteg ID-EH-50F-4, Conteg ID-EO-TC or equivalent)	pcs	5	-	0.00	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- steel rail DIN width 35mm	m	6	4.48	26.88	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	5	138.88	694.40	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	10	10.46	104.61	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	10	19.87	198.69	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	10	121.59	1215.85	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	240	5.09	1222.01	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	20	9.46	189.28	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Freestanding antivandal cabinet for outdoor installation, double walls, corrosion protection housing, IP 65, dimension 800x650x600mm, equipped with sets for mounting 19 "equipment and 19" profiles, 650 mm wide horizontal rails and 600 mm deep horizontal rails and 100 mm high stand, equipped with the following equipment: rings for vertical managment of cables from the front and back of the cabinet, mounting equipment sets, marking labels for marking the patch and power cords, rail for equipotential bonding, power rails with minimum 8 schuko socket outlets in metal housing with cable and switch (Conteg, Conteg VO-P8-80 / 80, Conteg DP-MO-100, Penduit LJSL4-Y3-2.5, Conteg DP-ZE-RAM, Conteg DP-RP-08SCHUS) or equivalent)	pcs	1	5,207.93	5207.93	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Base for installation in concrete with all necessary mounting material	pcs	1	291.20	291.20	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Air conditioner for sideways installation on the cabinet, power 380W, 230V, with NO thermostat (Conteg AC-WMO-04-400J and ID-EO-TH or equivalent)	pcs	1	-	0.00	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Heater for cabinet, power 250W, fan with flow 48 m3 / h, 230 VAC and NC thermostat (Conteg ID-EH-50F-4, Conteg ID-EO-TC or equivalent)	pcs	1	-	0.00	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- steel rail DIN width 35mm	m	1.2	4.48	5.38	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	1	138.88	138.88	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	2	10.46	20.92	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	1	19.87	19.87	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	1	121.59	121.59	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	24	5.09	122.20	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	4	9.46	37.86	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	45x45mm adapter for installation in parapet and/or flush wall mounted socket and/or floor socket and/or set, complete with a support for the installed module for structured cabling system (Schrack Technik HSEMD02W2F or equivalent)	pcs	19	0.92	17.48	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Shielded micro socket cat.6a for the installation in structured cabling system socket (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	38	4.57	173.66	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Kisac	COMMON COMMUNICATION NETWORK	Single socket for installation in the housing of IP equipment devices (Schrack Technik HSEAPB42WF TOOLLESS LINE, HSED01UW2S TOOLLESS or equivalent)	pcs	107	2.54	271.78	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in the housing of IP equipment devices. (Schrack Technik HSEMR06GWA or equivalent)	pcs	1	4.57	4.57	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat.6A, length 2m, LSOH (Schrack Technik H6GTG02K0G or equivalent)	pcs	1	5.09	5.09	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Fiber optic cable for underground laying, with 8 OM3 fibers, with rodent protection, for direct burial, with PE jacket	m	760	0.47	354.80	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	PE pipe Ø 40mm for the installation of fiber optic cable	m	760	0.65	493.70	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Coupling for plastic pipes PE Ø 40mm.	pcs	10	1.81	18.10	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Plug for PE pipe Ø 40mm	pcs	20	0.23	4.53	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, external	m	6000	0.85	5090.91	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, halogen free	m	2500	0.63	1565.70	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 10x2x0.8	m	20	3.00	60.00	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 2x2x0.8	m	50	0.70	34.99	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Kisac	COMMON COMMUNICATION NETWORK	Network IP address application and planning	set	1	-	0.00	Others	Material with service
5.7	Kisac	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 16 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	sel	1	1,774.47	1774.47	Others	Material
5.7	Kisac	VoIP COMMUNICATION SYSTEM	The basic type of IP phone. 320x240 pixels with 2.83 "color LCD monitor. Provides 3 lines, 10 programmable and 4 fixed buttons (with LED indication), Speaker / Headset / Mute / Navigation. 2 GE ports (10/100/1000). Comes with an adapter. (eSpace 7910 or equivalent)	pcs	1	547.61	547.61	Others	Material
5.7	Kisac	VoIP COMMUNICATION SYSTEM	A more complex type of IP phone. 800x480 pixels with 5 "LCD color monitor. Provides 6 lines, 1 Bluelooth and up to 3 extensions with 40 programmable buttons (with LED indication). 2 GE ports (10/100/1000). Includes adapter (eSpace 7950 or equivalent)	pcs	1	913.58	913.58	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	Call station with speaker and microphone on a flexible neck, with one "all call" function key, light indication. It supports redundant connections with the rest of the public address system. It is possible to configure the call station from the network controller. Any malfunction is controlled by the controller and in case of a failure of the controller it is possible to continue the announcement of evacuation messages (LBB 4430/00 or equivalent)	pcs	1	464.30	464.30	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	Keypad for the call station with a minimum of 5 programmable keys, light indication. The keys can be programmed to select the sound source, control the call activation, sound volume, area and group selection, etc. (LBB4432/00 or equivalent)	pcs	1	237.52	237.52	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	Column loudspeaker for external mounting, supports EN54- rated power 60W/100V with leads 60/30/15W- SPL (1m / 1W / 1kHz) 97dB- vertical angle of radiation (1kHz / 4kHz) 55°/18°- horizontal angle of radiation (1kHz / 4kHz) 170°/90° - frequency range 190Hz-20kHz Includes all protective and pole/wall mounting accessories. (LBC 3210/00 or equivalent)		55	630.70	34688.50	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	Waterproof distribution box equipped with a serial terminal for parallel separation of the installation	pcs	44	20.13	885.72	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	Distribution box equipped with serial terminals for parallel separation of the installation without halogen elements	pcs	15	20.13	301.95	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	Network audio controller, controls and routes up to 28 audio channels, powers the system's peripherals; minimum 4 audio inputs and 4 audio outputs, setting via PC, with LCD display, up to 256 priorities. It controls hundreds of zones and at least 30 other audio network devices. Audio messages can be downloaded from a computer in wave format. It has the possibility of audio processing for all audio outputs and inputs - parametric equalizer, limiter and gain are easily set using configuration software. It supports redundant connections with computer and audio network. Controls the status of equipment in the public address system and stores a minimum of 200 error messages. Monitoring of audio connections. In set with all needed software. Installation in 19" rack, (PRS-NCO3, PRS-6WOS[illegible] or equivalent)	pcs	1	3,849.94	3849.94	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	500W power output amplifier with automatic volume control, redundant network connection, audio processing and delay configuration for each channel amplifier, LCD display, 8 control inputs and 4 control outputs, four zones. Each control input has the ability to control open connections and short circuits. Control outputs are programmable. Supports standard EN 54, mounting in 19 "rack (BOSCH PRS-2P250 , LBB4440/00, LBB4443/00, Bosch LBB4445/00 or equivalent)	pcs	3	2,618.07	7854.21	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	Network interface for real-time uncompressed digital audio distribution over industry standard IP networks. Contains two optical network connections, Two RJ45 Ethernet connectors (long distance audio distribution), 8 supervised control inputs and 5 control outputs with the possibility of installation in 19 " rack. The unit is self-monitoring and continually reports its status to the network controller. It can also route audio channels between itself and other interfaces, in the same or in other audio system networks over WAN, or to third party units. Fully programmable and controlable over audio controller. Media transport and system control can run in encrypted mode for secure applications. Contains DSP processor and display for VU meter. Supports EN 54 standard (PRS-4OMI4 or equivalent)	pcs	1	2,458.38	2458.38	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	An ambient microphone (LBB 9600/20 or equivalent) with a mounting bracket	pcs	6	88.57	531.42	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	System cable 2m, (LBB 4416/02 or equivalent)	pcs	8	44.28	354.24	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	System cable 10m, (LBB 4416/10 or equivalent)	pcs	2	97.96	195.92	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	System cable 50m, (LBB 4416/50 or equivalent)	pcs	1	351.58	351.58	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	Equipment needed to connect the system cables (LBB 4417/00, or equivalent)	set	1	148.95	148.95	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiYCY 2x2.5mm²	m	2500	1.10	2750.00	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiHCH 2x2.5mm²	m	500	1.20	600.00	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	Installation cable, type:- microphone cable halogen free	m	300	2.30	690.00	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	- microphone cable external installation	m	1000	11.00	11000.00	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	Small sundry items and other unspecified Material and works	sel	1	203.97	203.97	Others	Material
5.7	Kisac	PUBLIC ADDRESS SYSTEM	Broadcast sound field test and display content debugging	set	1	500.00	500.00	Others	Material with service
5.7	Kisac	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, indoor mounted. Dial diameter 30cm. (Bodet PROFIL 930 NTP or equivalent)	pcs	4	303.27	1213.08	Others	Material
5.7	Kisac	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED illumination. (Bodet PROFIL 960E SE NTPor equivalent)	pcs	1	2,737.50	2737.50	Others	Material
5.7	Kisac	CLOCK SYSTEM	Double-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED illumination. (2xBodet PROFIL 960E SE NTP or equivalent)	pcs	6	4,159.92	24959.52	Others	Material
5.7	Kisac	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 30cm, indoor mounting. With all the necessary Materialand works	pcs	4	93.93	375.72	Others	Material
5.7	Kisac	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 60cm, outdoor mounting. With all the necessary Materialand works	pcs	7	308.64	2160.48	Others	Material
5.7	Kisac	CLOCK SYSTEM	Small sundry items and other unspecified Materialand works	set	1	442.83	442.83	Others	Material
5.7	Kisac	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 42", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 700 cd/m², contrast 1300:1, backlight. Integrated industrial PC. (CONRAC 6942PD or equivalent)	pcs	1	2,500.00	2500.00	Others	Material
5.7	Kisac	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 32", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 450 cd/m², contrast 1300:1, backlight. Integrated industrial PC. (CONRAC 6932PD or equivalent)	pcs	11	2,500.00	27500.00	Others	Material
5.7	Kisac	INFORMATION DISPLAY SYSTEM	Bracket for mounting the single-sided information display with all necessary materials	pcs	12	656.00	7872.00	Others	Material
5.7	Kisac	INFORMATION DISPLAY SYSTEM	Small sundry items and other unspecified Materialand works	set	1	800.00	800.00	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.7	Kisac	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 24 universal sensors). Equipped with temperature / humidity sensor. Supplied with power suppiy, equipment for installation in the cabinet and other equipment for installation and connecting. (APC NetBotz 200, NBOD0150 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Kisac	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	2	18.79	37.58	Others	Material
5.7	Kisac	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	2	56.36	112.72	Others	Material
5.7	Kisac	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	10	126.14	1261.40	Others	Material
5.7	Kisac	ENVIRONMENTAL MONITORING SYSTEM	Temperature and humidity sensor (AP9335TH or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Kisac	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	4	8.05	32.20	Others	Material
5.7	Kisac	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	sel	1	406.60	406.60	Others	Material
5.7	Kisac	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	sel	1	203.97	203.97	Others	Material
5.7	Kisac	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	pcs	1	2,000.00	2000.00	Others	Material with service
5.7	Kisac	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	pcs	1	2,000.00	2000.00	Others	Material with service
5.7	Kisac	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Distribution cabinet for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with following elements:	pcs	1	136.00	136.00	Others	Material
5.7	Kisac	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- disconnection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Kisac	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- connection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Kisac	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- marking block	pcs	2	6.55	13.10	Others	Material
5.7	Kisac	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- fuse module 10x2 10KA / 10A	pcs	2	19.22	38.44	Others	Material
5.7	Kisac	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- mechanical earthing drains	pcs	4	8.64	34.56	Others	Material
5.7	Kisac	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø40	m	10	1.90	19.00	Others	Material
5.7	Kisac	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø36	m	50	1.90	95.00	Others	Material
5.7	Kisac	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Installation cable, type:- J-H(St)H 10x2x0,8	m	80	3.00	240.00	Others	Material
5.7	Kisac	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Small sundry items and other unspecified Materialand works	sel	1	440.15	440.15	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	3	138.88	416.64	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	12	10.46	125.53	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	4	19.87	79.48	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH		6	86.00	516.00	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	3	121.59	364.76	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat 6A, length 2m, LSOH (Schrack Technik H6GTG02K0G or equivalent)	pcs	97	5.09	493.69	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	14	9.46	132.50	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	1	121.59	121.59	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat 6A, length 2m, LSOH (Schrack Technik H6GTG02K0G or equivalent)	pcs	24	5.09	122.20	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	9	9.46	85.18	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Base for installation in concrete with all necessary mounting material	pcs	6	291.20	1747.20	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Air conditioner for sideways installation on the cabinet, power 380W, 230V, with NO thermostat (Conteg AC-WMO-04-400J and ID-EO-TH or equivalent)	pcs	6	-	0.00	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Heater for cabinet, power 250W, fan with flow 48 m3 / h, 230 VAC and NC thermostat (Conteg ID-EH-50F-4, Conteg ID-EO-TC or equivalent)	pcs	6	-	0.00	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- steel rail DIN width 35mm	m	7.2	4.48	32.26	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	6	138.88	833.28	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	12	10.46	125.53	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	12	19.87	238.43	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	12	121.59	1459.02	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat 6A, length 2m, LSOH (Schrack Technik H6GTG02K0G or equivalent)	pcs	288	5.09	1466.41	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	24	9.46	227.14	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	45x45mm adapter for installation in parapet and/or flush wall mounted socket and/or floor socket and/or set, complete with a support for the installed module for structured cabling system (Schrack Technik HSEMD02W2F or equivalent)	pcs	19	0.92	17.48	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Shielded micro socket cat 6a for the installation in structured cabling system socket (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	38	4.57	173.66	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Single socket for installation in the housing of IP equipment devices (Schrack Technik HSEAP842WF TOOLLESS LINE, HSED01UW2S TOOLLESS or equivalent)	pcs	107	2.54	271.78	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in the housing of IP equipment devices. (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	4	4.57	18.28	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat 6A, length 2m, LSOH (Schrack Technik H6GTG02K0G or equivalent)	pcs	4	5.09	20.36	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	sel	1	450.88	450.88	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Fiber optic cable for underground laying, with 8 OM3 fibers, with rodent protection, for direct burial, with PE jacket	m	2000	0.47	933.67	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	PE pipe Ø 40mm for the installation of fiber optic cable	m	2000	0.65	1299.20	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Coupling for plastic pipes PE Ø 40mm	pcs	10	1.81	18.10	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Plug for PE pipe Ø 40mm	pcs	20	0.23	4.53	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, external	m	5800	0.85	4921.21	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, halogen free	m	2500	0.63	1565.70	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 10x2x0.8	m	20	3.00	60.00	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 2x2x0.8	m	50	0.70	34.99	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	sel	1	450.88	450.88	Others	Material
5.7	Stepanovicevo	COMMON COMMUNICATION NETWORK	Network IP address application and planning	sel	1	-	0.00	Others	Material
5.7	Stepanovicevo	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 16 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	sel	1	1,774.47	1774.47	Others	Material
5.7	Stepanovicevo	VoIP COMMUNICATION SYSTEM	The basic type of IP phone. 320x240 pixels with 2.83 "color LCD monitor. Provides 3 lines, 10 programmable and 4 fixed buttons (with LED indication), Speaker / Headset / Mute / Navigation. 2 GE ports (10/100/1000). Comes with an adapter. (eSpace 7910 or equivalent)	pcs	1	547.61	547.61	Others	Material
5.7	Stepanovicevo	VoIP COMMUNICATION SYSTEM	A more complex type of IP phone. 800x480 pixels with 5 "LCD color monitor. Provides 6 lines, 1 Bluetooth and up to 3 extensions with 40 programmable buttons (with LED indication). 2 GE ports (10/100/1000). Includes adapter (eSpace 7950 or equivalent)	pcs	1	913.58	913.58	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Call station with speaker and microphone on a flexible neck, with one "all call" function key, light indication. It supports redundant connections with the rest of the public address system. It is possible to configure the call station from the network controller. Any malfunction is controlled by the controller and in case of a failure of the controller it is possible to continue the announcement of evacuation messages (LBB 4430/00 or equivalent)	pcs	1	464.30	464.30	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Keypad for the call station with a minimum of 5 programmable keys, light indication. The keys can be programmed to select the sound source, control the call activation, sound volume, area and group selection, etc. (LBB4432/00 or equivalent)	pcs	1	237.52	237.52	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Column loudspeaker for external mounting, supports EN54- rated power 60W/100V with leads. 60/30/15W- SPL (1m / 1W / 1kHz) 97dB- vertical angle of radiation (1kHz / 4kHz) 55°/18°- horizontal angle of radiation (1kHz / 4kHz) 170°/90° - frequency range 190Hz-20kHz (includes all protectives and polewall mounting accessories. (LBC 3210/00 or equivalent)		60	630.70	37842.00	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Waterproof distribution box equipped with a serial terminal for parallel separation of the installation	pcs	48	20.13	966.24	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Distribution box equipped with serial terminals for parallel separation of the installation without halogen elements	pcs	15	20.13	301.95	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Network audio controller, controls and routes up to 28 audio channels, powers the system's peripherals; minimum 4 audio inputs and 4 audio outputs, setting via PC, with LCD display, up to 256 priorities. It controls hundreds of zones and at least 30 other audio network devices. Audio messages can be downloaded from a computer in wave format. It has the possibility of audio processing for all audio outputs and inputs - parametric equalizer, limiter and gain are easily set using configuration software. It supports redundant connections with computer and audio network. Controls the status of equipment in the public address system and stores a minimum of 200 error messages. Monitoring of audio connections. In set with all needed software. Installation in 19" rack, (PRS-NCO3, PRS-SWGPL-E, PS or equivalent)	pcs	1	3,849.94	3849.94	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	500W power output amplifier with automatic volume control, redundant network connection, audio processing and delay configuration for each channel amplifier, LCD display, 8 control inputs and 4 control outputs, four zones. Each control input has the ability to control open connections and short circuits. Control outputs are programmable. Supports standard EN 54, mounting in 19 "rack (BOSCH PRS-2P250, LBB4440/00, LBB4443/00, Bosch LBB4446/00 or equivalent)	pcs	3	2,618.07	7854.21	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Network interface for real-time uncompressed digital audio distribution over industry standard IP networks. Contains two optical network connections, Two RJ45 Ethernet connectors (long distance audio distribution), 8 supervised control inputs and 5 control outputs with the possibility of installation in 19 " rack. The unit is self-monitoring and continually reports its status to the network controller. It can also route audio channels between itself and other interfaces, in the same or in other audio system networks over WAN, or to third party units. Fully programmable and controlable over audio controller. Media transport and system control can run in encrypted mode for secure applications. Contains DSP processor and display for VU meter. Supports EN 54 standard (PRS-4OMI4 or equivalent)	pcs	1	2,458.38	2458.38	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	An ambient microphone (LBB 9600/20 or equivalent) with a mounting bracket	pcs	6	88.57	531.42	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	System cable 2m, (LBB 4416/02 or equivalent)	pcs	5	44.28	221.40	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	System cable 10m, (LBB 4416/10 or equivalent)	pcs	2	97.96	195.92	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	System cable 50m, (LBB 4416/50 or equivalent)	pcs	1	351.58	351.58	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Equipment needed to connect the system cables (LBB 4417/00, or equivalent)	set	1	148.95	148.95	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiYCY 2x2.5mm²	m	5300	1.10	5830.00	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiHCH 2x2.5mm²	m	300	1.20	360.00	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Installation cable, type:- microphone cable halogen free	m	150	2.30	345.00	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Installation cable, type:- microphone cable external installation	m	2200	11.00	24200.00	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Small sundry items and other unspecified Material and works	set	1	203.97	203.97	Others	Material
5.7	Stepanovicevo	PUBLIC ADDRESS SYSTEM	Broadcast sound field test and display content debugging	set	1	500.00	500.00	Others	Material with service
5.7	Stepanovicevo	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, indoor mounted. Dial diameter 30cm. (Bodet PROFIL 930 NTP or equivalent)	pcs	3	303.27	909.81	Others	Material
5.7	Stepanovicevo	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED illumination. (Bodet PROFIL 960E SE NTPor equivalent)	pcs	1	2,737.50	2737.50	Others	Material
5.7	Stepanovicevo	CLOCK SYSTEM	Double-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED illumination. (2xBodet PROFIL 960E SE NTP or equivalent)	pcs	6	4,159.92	24959.52	Others	Material
5.7	Stepanovicevo	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 30cm, indoor mounting. With all the necessary Materialand works	pcs	3	93.93	281.79	Others	Material
5.7	Stepanovicevo	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 60cm, outdoor mounting. With all the necessary Materialand works	pcs	7	308.64	2160.48	Others	Material
5.7	Stepanovicevo	CLOCK SYSTEM	Small sundry items and other unspecified Materialand works	set	1	442.83	442.83	Others	Material
5.7	Stepanovicevo	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 42", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 700 cd/m², contrast 1300:1, backlight. Integrated industrial PC. (CONRAC 6942PD or equivalent)	pcs	1	2.500.00	2500.00	Others	Material
5.7	Stepanovicevo	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 32", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 450 cd/m², contrast 1300:1, backlight. Integrated industrial PC. (CONRAC 6932PD or equivalent)	pcs	12	2.500.00	30000.00	Others	Material
5.7	Stepanovicevo	INFORMATION DISPLAY SYSTEM	Bracket for mounting the single-sided information display with all necessary materials	pcs	13	656.00	8528.00	Others	Material
5.7	Stepanovicevo	INFORMATION DISPLAY SYSTEM	Small sundry items and other unspecified Materialand works	set	1	800.00	800.00	Others	Material
5.7	Stepanovicevo	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 24 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0160 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Stepanovicevo	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor. i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	2	18.79	37.58	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Stepanovicevo	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	2	56.36	112.72	Others	Material
5.7	Stepanovicevo	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	10	126.14	1261.40	Others	Material
5.7	Stepanovicevo	ENVIRONMENTAL MONITORING SYSTEM	Temperature and humidity sensor (AP9335TH or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Stepanovicevo	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	4	8.05	32.20	Others	Material
5.7	Stepanovicevo	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	set	1	406.60	406.60	Others	Material
5.7	Stepanovicevo	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	set	1	203.97	203.97	Others	Material
5.7	Stepanovicevo	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	pcs	1	2,000.00	2000.00	Others	Material
5.7	Stepanovicevo	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment	pcs	1	2,000.00	2000.00	Others	Material
5.7	Stepanovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Distribution cabinet for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with following elements:	pcs	1	136.00	136.00	Others	Material
5.7	Stepanovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- disconnection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Stepanovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- connection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Stepanovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- marking block	pcs	2	6.55	13.10	Others	Material
5.7	Stepanovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- fuse module 10x2 10KA / 10A	pcs	2	19.22	38.44	Others	Material
5.7	Stepanovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- mechanical earthing drains	pcs	4	8.64	34.56	Others	Material
5.7	Stepanovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø40	m	10	1.90	19.00	Others	Material
5.7	Stepanovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø36	m	50	1.90	95.00	Others	Material
5.7	Stepanovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Installation cable, type:- J-H(St)H 10x2x0.8	m	80	3.00	240.00	Others	Material
5.7	Stepanovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Small sundry items and other unspecified Materialand works	set	1	440.15	440.15	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	3	138.88	416.64	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	10	10.46	104.61	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	4	19.87	79.48	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657.A1, length 50m, LSZH		6	86.00	516.00	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	3	121.59	364.76	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	97	5.09	493.89	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	14	9.46	132.50	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	1	121.59	121.59	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	24	5.09	122.20	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	9	9.46	85.16	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Freestanding antivandal cabinet for outdoor installation, double walls, corrosion protection housing, IP 65, dimension 800x650x600mm, equipped with sets for mounting 19 "equipment and 19" profiles, 650 mm wide horizontal rails and 600 mm deep horizontal rails and 100 mm high stand, equipped with the following equipment: rings for vertical managment of cables from the front and back of the cabinet, mounting equipment sets, marking labels for marking the patch and power cords, rail for equipotential bonding, power rails with minimum 8 schuko socket outlets in metal housing with cable and switch (Conteg, Conteg VO-P8-80 / 80, Conteg DP-MO-100, Penduit LJSL4-Y3-2.5, Conteg DP-ZE-RAM, Conteg DP-RP-08SCHUS) or equivalent)	pcs	6	5,207.93	31247.61	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Base for installation in concrete with all necessary mounting material	pcs	6	291.20	1747.20	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Air conditioner for sideways installation on the cabinet, power 380W, 230V, with NO thermostat (Conteg AC-WMO-04-400J and ID-EO-TH or equivalent)	pcs	6	-	0.00	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Heater for cabinet, power 250W, fan with flow 48 m3 / h, 230 VAC and NC thermostat (Conteg ID-EH-50F-4, Conteg ID-EO-TC or equivalent)	pcs	6	-	0.00	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- steel rail DIN width 35mm	m	7.2	4.48	32.26	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	6	138.88	833.28	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	12	10.46	125.53	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	12	19.87	238.43	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	12	121.59	1459.02	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	288	5.09	1466.41	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	24	9.46	227.14	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	45x45mm adapter for installation in parapet and/or flush wall mounted socket and/or floor socket and/or set, complete with a support for the installed module for structured cabling system (Schrack Technik HSEMD02W2F or equivalent)	pcs	19	0.92	17.48	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Shielded micro sockel cat 6a for the installation in structured cabling system socket (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	38	4.57	173.66	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Single socket for installation in the housing of IP equipment devices (Schrack Technik HSEAP842WF TOOLLESS LINE, HSED01UW2S TOOLLESS or equivalent)	pcs	103	2.54	261.62	Others	Material

Volume	Site	System	Item Description	Jed_more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in the housing of IP equipment devices. (Schrack Technik HSEMB I6GWA or equivalent)	pcs	103	4.57	470.71	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat.6A, length 2m, LSOH (Schrack Technik H6GTG02K0G or equivalent)	pcs	103	5.09	524.27	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Fiber optic cable for underground laying, with 8 OM3 fibers, with rodent protection, for direct burial, with PE jacket	m	1400	0.47	653.57	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	PE pipe Ø 40mm for the installation of fiber optic cable	m	1400	0.65	909.44	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Coupling for plastic pipes PE Ø 40mm.	pcs	10	1.81	18.10	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Plug for PE pipe Ø 40mm	pcs	10	0.20	2.26	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, external	m	5580	0.85	4734.55	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, halogen free	m	2250	0.63	1409.13	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 10x2x0.8	m	20	3.00	60.00	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 2x2x0.8	m	50	0.70	34.99	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Zmajevo	COMMON COMMUNICATION NETWORK	Network IP address application and planning	set	1	-	0.00	Others	Material
5.7	Zmajevo	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 16 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	set	1	1,774.47	1774.47	Others	Material
5.7	Zmajevo	VoIP COMMUNICATION SYSTEM	The basic type of IP phone. 320x240 pixels with 2.83 "color LCD monitor. Provides 3 lines, 10 programmable and 4 fixed buttons (with LED indication), Speaker / Headset / Mute / Navigation. 2 GE ports (10/100/1000). Comes with an adapter. (eSpace 7910 or equivalent)	pcs	1	547.61	547.61	Others	Material
5.7	Zmajevo	VoIP COMMUNICATION SYSTEM	A more complex type of IP phone. 800x480 pixels with 5 "LCD color monitor. Provides 6 lines, 1 Bluetooth and up to 3 extensions with 40 programmable buttons (with LED indication). 2 GE ports (10/100/1000). Includes adapter (eSpace 7950 or equivalent).	pcs	1	913.58	913.58	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	Call station with speaker and microphone on a flexible neck, with one "all call" function key, light indication. It supports redundant connections with the rest of the public address system. It is possible to configure the call station from the network controller. Any malfunction is controlled by the controller and in case of a failure of the controller it is possible to continue the announcement of evacuation messages (LBB 4430/00 or equivalent)	pcs	1	464.30	464.30	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	Keypad for the call station with a minimum of 5 programmable keys, light indication. The keys can be programmed to select the sound source, control the call activation, sound volume, area and group selection, etc. (LBB4432/00 or equivalent)	pcs	1	237.52	237.52	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	Column loudspeaker for external mounting, supports EN54- rated power 60W/100V with leads 60/30/15W- SPL (1m / 1W / 1kHz) 97dB- vertical angle of radiation (1kHz / 4kHz) 55°/18°- horizontal angle of radiation (1kHz / 4kHz) 170°/90° - frequency range 190Hz-20kHz Includes all protective and pole/wall mounting accessories. (LBC 3210/00 or equivalent)		55	630.70	34688.50	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	Waterproof distribution box equipped with a serial terminal for parallel separation of the installation.	pcs	44	20.13	885.72	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	Distribution box equipped with serial terminals for parallel separation of the installation without halogen elements	pcs	15	20.13	301.95	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	Network audio controller, controls and routes up to 28 audio channels, powers the system's peripherals; minimum 4 audio inputs and 4 audio outputs, setting via PC, with LCD display, up to 256 priorities. It controls hundreds of zones and at least 30 other audio network devices. Audio messages can be downloaded from a computer in wave format. It has the possibility of audio processing for all audio outputs and inputs - parametric equalizer, limiter and gain are easily set using configuration software. It supports redundant connections with computer and audio network. Controls the status of equipment in the public address system and stores a minimum of 200 error messages. Monitoring of audio connections. In set with all needed software. Installation in 19" rack, (PRS-NCO3, PRS-[illegible] or equivalent)	pcs	1	3,849.94	3849.94	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	500W power output amplifier with automatic volume control, redundant network connection, audio processing and delay configuration for each channel amplifier, LCD display, 8 control inputs and 4 control outputs, four zones. Each control input has the ability to control open connections and short circuits. Control outputs are programmable. Supports standard EN 54, mounting in 19 "rack (BOSCH PRS-2P250 , LBB4440/00, LBB4443/00, Bosch LBB4446/00 or equivalent)	pcs	3	2,618.07	7854.21	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	Network interface for real-time uncompressed digital audio distribution over industry standard IP networks. Contains two optical network connections, Two RJ45 Ethernet connectors (long distance audio distribution), 8 supervised control inputs and 5 control outputs with the possibility of installation in 19 " rack. The unit is self-monitoring and continually reports its status to the network controller. It can also route audio channels between itself and other interfaces, in the same or in other audio system networks over WAN, or to third party units. Fully programmable and controllable over audio controller. Media transport and system control can run in encrypted mode for secure applications. Contains DSP processor and display for VU meter. Supports EN 54 standard (PRS-4OMI4 or equivalent)	pcs	1	2,458.38	2458.38	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	An ambient microphone (LBB 9600/20 or equivalent) with a mounting bracket	pcs	5	88.57	442.85	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	System cable 2m, (LBB 4416/02 or equivalent)	pcs	5	44.28	221.40	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	System cable 10m, (LBB 4416/10 or equivalent)	pcs	2	97.96	195.92	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	System cable 50m, (LBB 4416/50 or equivalent)	pcs	1	351.58	351.58	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	Equipment needed to connect the system cables (LBB 4417/00, or equivalent)	set	1	148.95	148.95	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiYCY 2x2 5mm²	m	4000	1.10	4400.00	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiHCH 2x2 5mm²	m	300	1.20	360.00	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	Installation cable, type:- microphone cable halogen free	m	100	2.30	230.00	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	- microphone cable external installation	m	1500	11.00	16500.00	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	Small sundry items and other unspecified Material and works	set	1	203.97	203.97	Others	Material
5.7	Zmajevo	PUBLIC ADDRESS SYSTEM	Broadcast sound field test and display content debugging	set	1	500.00	500.00	Others	Material with service
5.7	Zmajevo	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, indoor mounted. Dial diameter 30cm. (Bodet PROFIL 930 NTP or equivalent)	pcs	4	303.27	1213.08	Others	Material
5.7	Zmajevo	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED illumination (Bodet PROFIL 960F SE NTPor equivalent)	pcs	1	2,737.50	2737.50	Others	Material
5.7	Zmajevo	CLOCK SYSTEM	Double-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED illumination. (2xBodet PROFIL 960F SE NTP or equivalent)	pcs	5	4,159.92	20799.60	Others	Material
5.7	Zmajevo	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 30cm, indoor mounting. With all the necessary Materialand works	pcs	4	93.93	375.72	Others	Material
5.7	Zmajevo	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 60cm, outdoor mounting. With all the necessary Materialand works	pcs	6	308.64	1851.84	Others	Material
5.7	Zmajevo	CLOCK SYSTEM	Small sundry items and other unspecified Materialand works	set	1	442.83	442.83	Others	Material
5.7	Zmajevo	INFORMATION DISPLAY SYSTEM	TFT information display for indoor mounting, E-LED illumination, size 32", format 16:9 (IP20). Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 350 cd/m², contrast 3000:1, backlight. Integrated industrial PC. (CONRAC 6132 PD or equivalent)	pcs	1	2,500.00	2500.00	Others	Material
5.7	Zmajevo	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 42", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 700 cd/m², contrast 1300:1, backlight. Integrated industrial PC. (CONRAC 6942PD or equivalent)	pcs	1	2,500.00	2500.00	Others	Material
5.7	Zmajevo	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 32", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 450 cd/m², contrast 1300:1, backlight. Integrated industrial PC. (CONRAC 6932PD or equivalent)	pcs	11	2,500.00	27500.00	Others	Material
5.7	Zmajevo	INFORMATION DISPLAY SYSTEM	Bracket for mounting the single-sided information display with all necessary materials	pcs	13	656.00	8528.00	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Zmajevo	INFORMATION DISPLAY SYSTEM	Small sundry items and other unspecified Materialand works	set	1	800.00	800.00	Others	Material
5.7	Zmajevo	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 24 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBCO0150 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Zmajevo	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	2	18.79	37.58	Others	Material
5.7	Zmajevo	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	2	56.36	112.72	Others	Material
5.7	Zmajevo	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	10	126.14	1261.40	Others	Material
5.7	Zmajevo	ENVIRONMENTAL MONITORING SYSTEM	Temperature and humidity sensor (AP9335TH or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Zmajevo	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	4	8.05	32.20	Others	Material
5.7	Zmajevo	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	set	1	406.60	406.60	Others	Material
5.7	Zmajevo	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	set	1	203.97	203.97	Others	Material
5.7	Zmajevo	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	pcs	1	2,000.00	2000.00	Others	Material
5.7	Zmajevo	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	pcs	1	2,000.00	2000.00	Others	Material
5.7	Zmajevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Distribution cabinet for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with following elements:	pcs	1	136.00	136.00	Others	Material
5.7	Zmajevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- disconnection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Zmajevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- connection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Zmajevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- marking block	pcs	2	6.55	13.10	Others	Material
5.7	Zmajevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- fuse module 10x2 10KA / 10A	pcs	2	19.22	38.44	Others	Material
5.7	Zmajevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- mechanical earthing drains	pcs	4	8.64	34.56	Others	Material
5.7	Zmajevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø40	m	10	1.90	19.00	Others	Material
5.7	Zmajevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø36	m	50	1.90	95.00	Others	Material
5.7	Zmajevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Installation cable, type:- J-H(St)H 10x2x0.8	m	80	3.00	240.00	Others	Material
5.7	Zmajevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Small sundry items and other unspecified Materialand works	set	1	440.15	440.15	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, togelher with accessories and with fiber optic E2000/APC SM, pigtails 2m long, with 12 E2000/APC compact adapters	kom	1	138.88	138.88	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	4	138.88	555.52	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	20	10.46	209.22	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657, length 2m, LSZH	pcs	2	22.01	44.02	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	4	19.87	79.48	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH		6	86.00	516.00	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMPJ6GWA or equivalent)	pcs	2	121.59	243.17	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	2	31.75	63.50	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat 6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	98	5.09	498.99	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	17	9.46	160.89	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMPJ6GWA or equivalent)	pcs	1	121.59	121.59	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat 6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	24	5.09	122.20	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	3	9.46	28.39	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- universal panel (for roof mounting) 19", with 2 fans (Schrack Technik DLT44802-A or equivalent)	pcs	1	134.41	134.41	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM, pigtails 2m long, with 12 E2000/APC compact adapters	kom	1	138.88	138.88	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657, length 2m, LSZH	pcs	2	22.01	44.02	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	5	19.87	99.34	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMPJ6GWA or equivalent)	pcs	5	121.59	607.93	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	3	31.75	95.26	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat 6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	195	5.09	992.88	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	18	9.46	170.35	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Freestanding antivandal cabinet for outdoor installation, double walls, corrosion protection housing, IP 65, dimension 800x650x600mm, equipped with sets for mounting 19 "equipment and 19" profiles, 650 mm wide horizontal rails and 600 mm deep horizontal rails and 100 mm high stand, equipped with the following equipment: rings for vertical managment of cables from the front and back of the cabinet, mounting equipment sets, marking labels for marking the patch and power cords, rail for equipotential bonding, power rails with minimum 8 schuko socket outlets in metal housing with cable and switch (Conteg, Conteg VO-P8-80 / 80, Conteg DP-MO-100, Penduit LJSL4-Y3-2.5, Conteg DP-ZE-RAM, Conteg DP-RP-08SCHUS) or equivalent)	pcs	6	5,207.93	31247.61	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Base for installation in concrete with all necessary mounting material	pcs	6	291.20	1747.20	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Air conditioner for sideways installation on the cabinet, power 380W, 230V, with NO thermostat (Conteg AC-WMO-04-400J and ID-EO-TH or equivalent)	pcs	6	-	0.00	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Heater for cabinet, power 250W, fan with flow 48 m3 / h, 230 VAC and NC thermostat (Conteg ID-EH-50F-4, Conteg ID-EO-TC or equivalent)	pcs	6	-	0.00	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- steel rail DIN width 35mm	m	7.2	4.48	32.26	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	6	138.88	833.28	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	12	10.46	125.53	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	12	19.87	238.43	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSERB0240GS, HSEMRJ6GWA or equivalent)	pcs	12	121.59	1459.02	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat 6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	288	5.09	1466.41	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	24	9.46	227.14	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Freestanding antivandal cabinet for outdoor installation, double walls, corrosion protection housing: IP 65, dimension 800x650x600mm, equipped with sets for mounting 19 "equipment and 19" profiles, 650 mm wide horizontal rails and 600 mm deep horizontal rails and 100 mm high stand, equipped with the following equipment: rings for vertical managment of cables from the front and back of the cabinet, mounting equipment sets, marking labels for marking the patch and power cords, rail for equipotential bonding, power rails with minimum 8 schuko socket outlets in metal housing with cable and switch (Conteg, Conteg VO-P8-80 / 80, Conteg DP-MO-100, Penduit LJSL4-Y3-2.5, Conteg DP-ZE-RAM, Conteg DP-RP-08SCHUS) or equivalent)	pcs	4	5,207.93	20831.74	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Base for installation in concrete with all necessary mounting material	pcs	4	291.20	1164.80	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Air conditioner for sideways installation on the cabinet, power 380W, 230V, with NO thermostat (Conteg AC-WMO-04-400J and ID-EO-TH or equivalent)	pcs	4	-	0.00	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Heater for cabinet, power 250W, fan with flow 48 m3 / h, 230 VAC and NC thermostat (Conteg ID-EH-50F-4, Conteg ID-EO-TC or equivalent)	pcs	4	-	0.00	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- steel rail DIN width 35mm	m	4.8	4.48	21.50	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	4	138.88	555.52	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	8	10.46	83.69	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	4	19.87	79.48	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSERB0240GS, HSEMRJ6GWA or equivalent)	pcs	4	121.59	486.34	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat 6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	96	5.09	488.80	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	12	9.46	113.57	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Distribution cabinet (PO-TK 1.2) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, mounting frames for modules, equipped with tree connection and two disconnection modules 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, tree fuse modules 10x2, 10KA / 10A and five mechanical earthing straps	pcs	2	95.03	190.06	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	45x45mm adapter for installation in parapel and/or flush wall mounted socket and/or floor socket and/or set, complete with a support for the installed module for structured cabling system (Schrack Technik HSEMD02W2F or equivalent)	pcs	55	0.92	50.60	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Shielded micro socket cat.6a for the installation in structured cabling system socket (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	110	4.57	502.70	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Single surface wall mounted socket for the installation in suspended ceiling for IP equipment (Schrack Technik HSEAP842WF TOOLLESS LINE, HSED01UW2S TOOLLESS or equivalent)	pcs	23	2.54	58.42	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in suspended ceiling for IP equipment (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	23	4.57	105.19	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	23	5.09	117.07	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Single socket for installation in the housing of IP equipment devices (Schrack Technik HSEAP842WF TOOLLESS LINE, HSED01UW2S TOOLLESS or equivalent)	pcs	145	2.54	368.30	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in the housing of IP equipment devices (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	145	4.57	662.65	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	145	5.09	738.05	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Fiber optic cable for underground laying, with 8 OM3 fibers, with rodent protection, for direct burial, with PE jacket	m	2100	0.47	980.36	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Fiber optic cable for underground laying, with 24 fibers in accordance to G.657 recommendation in all according to technical conditions, with rodent protection, for direct burial, with PE jacket	m	200	0.47	93.37	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	PE pipe Ø 40mm for the installation of fiber optic cablo	m	2300	0.65	1494.08	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Coupling for plastic pipes PE Ø 40mm	pcs	10	1.81	18.10	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Plug for PE pipe Ø 40mm	pcs	20	0.23	4.53	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	TK 59 M 15x4x0.8	m	200	2.86	571.43	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, external	m	8000	0.85	6787.88	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, halogen free	m	6600	0.63	4133.45	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 10x2x0.8	m	20	3.00	60.00	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 2x2x0.8	m	50	0.70	34.99	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Network IP address application and planning	set	1	-	0.00	Others	Material
5.7	Vrbas	VoIP COMMUNICATION SYSTEM	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	sel	1	31,235.64	31235.64	Others	Material
5.7	Vrbas	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 16 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	sel	2	1,774.47	3548.94	Others	Material
5.7	Vrbas	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 8 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	sel	1	888.99	888.99	Others	Material
5.7	Vrbas	VoIP COMMUNICATION SYSTEM	The basic type of IP phone. 320x240 pixels with 2.83 "color LCD monitor. Provides 3 lines, 10 programmable and 4 fixed buttons (with LED indication). Speaker / Headset / Mute / Navigation. 2 GE ports (10/100/1000). Comes with an adapter. (eSpace 7910 or equivalent)	pcs	5	547.61	2738.05	Others	Material
5.7	Vrbas	VoIP COMMUNICATION SYSTEM	A more complex type of IP phone. 800x480 pixels with 5 "LCD color monitor. Provides 6 lines, 1 Bluetooth and up to 3 extensions with 40 programmable buttons (with LED indication). 2 GE ports (10/100/1000). Includes adapter (eSpace 7950 or equivalent)	pcs	2	913.58	1827.16	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Call station with speaker and microphone on a flexible neck, with one "all call" function key, light indication. It supports redundant connections with the rest of the public address system. It is possible to configure the call station from the network controller. Any malfunction is controlled by the controller and in case of a failure of the controller it is possible to continue the announcement of evacuation messages (LBB 4430/00 or equivalent)	pcs	1	464.30	464.30	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Keypad for the call station with a minimum of 5 programmable keys, light indication. The keys can be programmed to select the sound source, control the call activation, sound volume, area and group selection, etc. (LBB 4432/00 or equivalent)	pcs	1	237.52	237.52	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Ceiling speaker for indoor installation in suspended ceiling, compliant to EN54, IP21 (dimension adjusted with lower ceiling):- Rated power 6W / 100V with leads 6/3 / 1,5 / 0,75W- SPL (1m / 1W / 1kHz) 88dB-angle of coverage 1kHz/4kHz 180°/62°- frequency range 70Hz- 20kHz,Includes protection boxes and all mounting accessories (LC1-UM06E8, LC1-CMR, LC1-CB8 or equivalent)		19	60.39	1147.41	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Column loudspeaker for external mounting, supports EN54- rated power 60W/100V with leads 60/30/15W- SPL (1m / 1W / 1kHz) 97dB- vertical angle of radiation (1kHz / 4kHz) 55°/18°- horizontal angle of radiation (1kHz / 4kHz) 170°/90° - frequency range 190Hz-20kHz Includes all protective and poleiwall mounting accessories (LBC-3210/00 or equivalent)	pcs	24	630.70	15136.80	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Horn, IP 65, complete with driver- rated power 30W/100V with leads 30/15/7,5W- vertical angle of radiation (1kHz / 4kHz) 98°/118°- horizontal angle of radiation (1kHz / 4kHz) 68°- SPL (1m / 1W / 1kHz) 100dB- frequency range 212Hz- 20kHz Includes all protective and mounting accessories (LH1-UC30E or equivalent)	pcs	6	228.12	1368.72	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Waterproof distribution box equipped with a serial terminal for parallel separation of the installation	pcs	12	20.13	241.56	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Distribution box equipped with serial terminals for parallel separation of the installation without halogen elements	pcs	19	20.13	382.47	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Atenuator 12W / 100V for wall mounting, with connection box with terminals for 1.5mm²	pcs	1	53.75	53.75	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Atenuator 36W/100V for wall mounting, with connection box with terminals for 1.5mm²	pcs	1	59.04	59.04	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Atenuator 100W/100V for wall mounting, with connection box with terminals for 1.5mm²	pcs	1	127.48	127.48	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Network audio controller, controls and routes up to 28 audio channels, powers the system's peripherals; minimum 4 audio inputs and 4 audio outputs, setting via PC, with LCD display, up to 256 priorities. It controls hundreds of zones and at least 30 other audio network devices. Audio messages can be downloaded from a computer in wave format. It has the possibility of audio processing for all audio outputs and inputs - parametric equalizer, limiter and gain are easily set using configuration software. It supports redundant connections with computer and audio network. Controls the status of equipment in the public address system and stores a minimum of 200 error messages. Monitoring of audio connections. In set with all needed software. Installation in 19" rack, (PRS-NCO3, PRS-6WCPU, E-BC or equivalent)	pcs	1	3,849.94	3849.94	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	500W power output amplifier with automatic volume control, redundant network connection, audio processing and delay configuration for each channel amplifier, LCD display, 8 control inputs and 4 control outputs, two zones. Each control input has the ability to control open connections and short circuits. Control outputs are programmable. Supports standard EN 54, mounting in 19 "rack (BOSCH PRS-2P250, LBB4440/00, LBB4443/00, Bosch LBB4446/00 or equivalent)	pcs	1	2,618.07	2618.07	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	500W power output amplifier with automatic volume control, redundant network connection, audio processing and delay configuration for each channel amplifier, LCD display, 8 control inputs and 4 control outputs, four zones. Each control input has the ability to control open connections and short circuits. Control outputs are programmable. Supports standard EN 54, mounting in 19 "rack (BOSCH PRS-4P125, LBB4440/00, LBB4443/00, Bosch LBB4446/00 or equivalent)	pcs	4	2,848.87	11395.48	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Network interface for real-time uncompressed digital audio distribution over industry standard IP networks. Contains two optical network connections, Two RJ45 Ethernet connectors (long distance audio distribution), 8 supervised control inputs and 5 control outputs with the possibility of installation in 19 " rack. The unit is self-monitoring and continually reports its status to the network controller. It can also route audio channels between itself and other interfaces, in the same or in other audio system networks over WAN, or to third party units. Fully programmable and controlable over audio controller. Media transport and system control can run in encrypted mode for secure applications. Contains DSP processor and display for VU meter. Supports EN 54 standard (PRS-4OMI4 or equivalent)	pcs	1	2,458.38	2458.38	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	An ambient microphone (LBB 9600/20 or equivalent) with a mounting bracket	pcs	6	88.57	531.42	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	System cable 2m, (LBB 4416/02 or equivalent)	pcs	6	44.28	265.68	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	System cable 10m, (LBB 4416/10 or equivalent)	pcs	2	97.96	195.92	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	System cable 50m, (LBB 4416/50 or equivalent)	pcs	1	351.58	351.58	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Equipment needed to connect the system cables (LBB 4417/00, or equivalent)	set	1	148.95	148.95	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiYCY 2x2.5mm²	m	3000	1.10	3300.00	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiHCH 2x2.5mm²	m	800	1.20	960.00	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiYCY 3x2.5mm²	m	200	1.80	360.00	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiHCH 3x2.5mm²	m	100	1.80	180.00	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Installation cable, type:- microphone cable halogen free	m	300	2.30	690.00	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	- microphone cable external installation	m	1200	11.00	13200.00	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Small sundry items and other unspecified Material and works	set	1	203.97	203.97	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Broadcast sound field test and display content debugging	set	1	500.00	500.00	Others	Material with service
5.7	Vrbas	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, indoor mounted. Dial diameter 30cm (Bodel PROFIL 930 NTP or equivalent)	pcs	10	303.27	3032.70	Others	Material
5.7	Vrbas	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED ilumination (Bodel PROFIL 960E SE NTPor equivalent)	pcs	1	2,737.50	2737.50	Others	Material
5.7	Vrbas	CLOCK SYSTEM	Double-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED ilumination. (2xBodel PROFIL 960E SE NTP or equivalent)	pcs	10	4,159.92	41599.20	Others	Material
5.7	Vrbas	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 30cm, indoor mounting. With all the necessary Materialand works	pcs	10	93.93	939.30	Others	Material
5.7	Vrbas	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 60cm, outdoor mounting. With all the necessary Materialand works	pcs	11	308.64	3395.04	Others	Material
5.7	Vrbas	CLOCK SYSTEM	Small sundry items and other unspecified Materialand works	set	1	442.83	442.83	Others	Material
5.7	Vrbas	INFORMATION DISPLAY SYSTEM	TFT information display for indoor mounting, E-LED illumination, size 32", format 16:9 (IP20). Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 350 cd/m², contrast 3000:1, backlight. Integrated industrial PC. (CONRAC 6132 PD or equivalent)	pcs	3	2,500.00	7500.00	Others	Material
5.7	Vrbas	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 42", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 700 cd/m², contrast 1300:1, backlight. Integrated industrial PC (CONRAC 6942PD or equivalent)	pcs	1	2,500.00	2500.00	Others	Material
5.7	Vrbas	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 32", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 450 cd/m², contrast 1300:1, backlight. Integrated industrial PC (CONRAC 6932PD or equivalent)	pcs	20	2,500.00	50000.00	Others	Material
5.7	Vrbas	INFORMATION DISPLAY SYSTEM	Bracket for mounting the single-sided information display with all necessary materials.	pcs	4	656.00	2624.00	Others	Material
5.7	Vrbas	INFORMATION DISPLAY SYSTEM	Bracket for mounting the double-sided information display with all necessary materials.	pcs	10	1,308.00	13080.00	Others	Material
5.7	Vrbas	INFORMATION DISPLAY SYSTEM	Small sundry items and other unspecified Materialand works	set	1	800.00	800.00	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	1	18.79	18.79	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	1	56.36	56.36	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	1	126.14	126.14	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	1	8.05	8.05	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	set	1	406.60	406.60	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	set	1	203.97	203.97	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 24 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor - i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	2	18.79	37.58	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	2	56.36	112.72	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	10	126.14	1261.40	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Temperature and humidity sensor (AP9335TH or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	4	8.05	32.20	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	set	1	406.60	406.60	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	set	1	203.97	203.97	Others	Material
5.7	Vrbas	TWO-WAY COMMUNICATION MICROPHONE SYSTEM	Set for hands-free two-way communication on counters composed of central unit and sub unit. Adapted to integrated with induction loop system for hearing assistance. In a set with power unit and all installation cable and equipment. (ATEIS Magelan Compact or equivalent)	set	3	1.650.55	4951.65	Others	Material
5.7	Vrbas	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	pcs	1	2,000.00	2000.00	Others	Material
5.7	Vrbas	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment	pcs	1	2,000.00	2000.00	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Distribution cabinet for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with following elements:	pcs	1	136.00	136.00	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- disconnection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- connection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- marking block	pcs	2	6.55	13.10	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- fuse module 10x2 10KA / 10A	pcs	2	19.22	38.44	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- mechanical earthing drains	pcs	4	8.64	34.56	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø40	m	10	1.90	19.00	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø36	m	50	1.90	95.00	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Installation cable, type:- J-H(St)H 10x2x0,8	m	80	3.00	240.00	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Small sundry items and other unspecified Materialand works	set	1	440.15	440.15	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LSOH (Schrack Technik H6GTG02K0G or equivalent)	pcs	60	5.09	305.50	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	6	9.46	56.78	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Call station with speaker and microphone on a flexible neck, with one "all call" function key, light indication. It supports redundant connections with the rest of the public address system. It is possible to configure the call station from the network controller. Any malfunction is controlled by the controller and in case of a failure of the controller it is possible to continue the announcement of evacuation messages (LBB 4430/00 or equivalent)	pcs	1	464.30	464.30	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Keypad for the call station with a minimum of 5 programmable keys, light indication. The keys can be programmed to select the sound source, control the call activation, sound volume, area and group selection, etc. (LBB4432/00 or equivalent)	pcs	2	237.52	475.04	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Network audio controller, controls and routes up to 28 audio channels, powers the system's peripherals; minimum 4 audio inputs and 4 audio outputs, setting via PC, with LCD display, up to 256 priorities. It controls hundreds of zones and at least 30 other audio network devices. Audio messages can be downloaded from a computer in wave format. It has the possibility of audio processing for all audio outputs and inputs - parametric equalizer, limiter and gain are easily set using configuration software. It supports redundant connections with computer and audio network. Controls the status of equipment in the public address system and stores a minimum of 200 error messages. Monitoring of audio connections. In set with all needed software. Installation in 19" rack, (PRS-NCO3, PRS-[illegible])	pcs	1	3,849.94	3849.94	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Network interface for real-time uncompressed digital audio distribution over industry standard IP networks. Contains two optical network connections. Two RJ45 Ethernet connectors (long distance audio distribution), 8 supervised control inputs and 5 control outputs with the possibility of installation in 19 " rack. The unit is self-monitoring and continually reports its status to the network controller. It can also route audio channels between itself and other interfaces, in the same or in other audio system networks over WAN, or to third party units. Fully programmable and controlable over audio controller. Media transport and system control can run in encrypted mode for secure applications. Contains DSP processor and display for VU meter. Supports EN 54 standard (PRS-4OMI4 or [illegible])	pcs	1	2,458.38	2458.38	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Workstations with one 32 " monitor for each On-duty staff room	pcs	1	1,000.00	1000.00	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Software with a graphical interface for the operator with an overview of the zones. Supports a variety of audio subsystems, call control and BGM. Allows you to start and end the call. Multiple calls simultaneously can be active from the same client application. Selecting different BGM channels and volume can be controlled and changed by zone, (PRS-CSC-E PC Call Station Client or equivalent)	pcs	1	289.85	289.85	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Interface for transition from system cable to optical cable (PRS-FINS or equivalent)	pcs	4	724.63	2898.52	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH	pcs	4	30.00	120.00	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	System cable 2m, (LBB 4416/02 or equivalent)	pcs	1	44.28	44.28	Others	Material

Volume	Site	System	Item Description	Jed_mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	System cable 10m, (LBB 4416/10 or equivalent)	pcs	2	97.96	195.92	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	System cable 50m, (LBB 4416/50 or equivalent)	pcs	2	351.58	703.16	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Equipment needed to connect the system cables (LBB 4417/00, or equivalent)	set	1	148.95	148.95	Others	Material
5.7	Vrbas	PUBLIC ADDRESS SYSTEM	Small sundry items and other unspecified Material and works	set	1	203.97	203.97	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Workstations with two 32 " monitors for each On-duty staff room	sel	1	1,000.00	1000.00	Others	Material
5.7	Vrbas	INTEGRATION OF SECURITY SYSTEMS	Workstations with two 32 " monitors for each On-duty staff room	set	1	1,000.00	1000.00	Others	Material
5.7	Vrbas	INTEGRATION OF SECURITY SYSTEMS	Parallel panel (FMR 5000 or equivalent)	pcs	1	668.27	668.27	Others	Material
5.7	Vrbas	INTEGRATION OF SECURITY SYSTEMS	- system cable for parallel panel	m	30	2.68	80.40	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM pigtails 2m long, with 12 E2000/APC compact adapters	kom	1	138.88	138.88	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	3	138.88	416.64	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657, length 2m, LSZH	pcs	2	22.01	44.02	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	4	19.87	79.48	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657,A1, length 50m, LSZH	pcs	6	86.00	516.00	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	1	19.87	19.87	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER02240GS, HSEMRJ6GWA or equivalent)	pcs	2	121.59	243.17	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	73	5.09	371.69	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	10	9.46	94.64	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- universal panel (for roof mounting) 19 ", with 2 fans (Schrack Technik DLT44802-A or equivalent)	pcs	1	134.41	134.41	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM pigtails 2m long, with 12 E2000/APC compact adapters	kom	1	138.88	138.88	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657, length 2m, LSZH	pcs	2	22.01	44.02	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	1	19.87	19.87	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER02240GS, HSEMRJ6GWA or equivalent)	pcs	2	121.59	243.17	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	73	5.09	371.69	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	10	9.46	94.64	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- universal panel (for roof mounting) 19 ", with 2 fans (Schrack Technik DLT44802-A or equivalent)	pcs	1	134.41	134.41	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM pigtails 2m long, with 12 E2000/APC compact adapters	kom	1	138.88	138.88	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657, length 2m, LSZH	pcs	2	22.01	44.02	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	1	19.87	19.87	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER02240GS, HSEMRJ6GWA or equivalent)	pcs	2	121.59	243.17	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	73	5.09	371.69	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	10	9.46	94.64	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- universal panel (for roof mounting) 19 ", with 2 fans (Schrack Technik DLT44802-A or equivalent)	pcs	1	134.41	134.41	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM pigtails 2m long, with 12 E2000/APC compact adapters	kom	1	138.88	138.88	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657, length 2m, LSZH	pcs	2	22.01	44.02	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	1	19.87	19.87	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER02240GS, HSEMRJ6GWA or equivalent)	pcs	2	121.59	243.17	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	73	5.09	371.69	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	10	9.46	94.64	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Distribution cabinet (PO-TK 1,2) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, mounting frames for modules, equipped with tree connection and two disconnection modules 10x2 with IDC connectors, with double contacts on the lumper side, two marking blocks, tree fuse modules 10x2 10KA / 10A and five mechanical earthing drains	pcs	2	95.03	190.06	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	45x45mm adapter for installation in parapet and/or flush wall mounted socket and/or floor socket and/or set, complete with a support for the installed module for structured cabling system (Schrack Technik HSEMD02W2F or equivalent)	pcs	30	0.92	27.60	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Shielded micro socket cat.6a for the installation in structured cabling system socket (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	60	4.57	274.20	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Single socket for installation in the housing of IP equipment devices (Schrack Technik HSEAP842WF TOOLLESS LINE, HSED01UW2S TOOLLESS or equivalent)	pcs	15	2.54	38.10	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in the housing of IP equipment devices (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	1	4.57	4.57	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	1	5.09	5.09	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Fiber optic cable for underground laying, with 24 fibers in accordance to G.657 recommendation in all according to technical conditions, with rodent protection, for direct burial, with PE jacket	m	200	0.47	93.37	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	PE pipe Ø 40mm for the installation of fiber optic cable	m	200	0.65	129.92	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Coupling for plastic pipes PE Ø 40mm	pcs	10	1.81	18.10	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Plug for PE pipe Ø 40mm	pcs	20	0.23	4.53	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	TK 59 M 15x4x0.8	m	200	2.86	571.43	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, external	m	100	0.85	84.85	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, halogen free	m	3000	0.63	1878.84	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 10x2x0.8	m	20	3.00	60.00	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 2x2x0.8	m	50	0.70	34.99	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Vrbas	COMMON COMMUNICATION NETWORK	Network IP address application and planning	set	1	-	0.00	Others	Material with service
5.7	Vrbas	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 16 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	set	1	1,774.47	1774.47	Others	Material
5.7	Vrbas	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 8 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	set	1	888.99	888.99	Others	Material
5.7	Vrbas	VoIP COMMUNICATION SYSTEM	The basic type of IP phone. 320x240 pixels with 2.83 "color LCD monitor. Provides 3 lines, 10 programmable and 4 fixed buttons (with LED indication), Speaker / Headset / Mute / Navigation. 2 GE ports (10/100/1000). Comes with an adapter. (eSpace 7910 or equivalent)	pcs	4	547.61	2190.44	Others	Material
5.7	Vrbas	VoIP COMMUNICATION SYSTEM	A more complex type of IP phone. 800x480 pixels with 5 "LCD color monitor. Provides 6 lines, 1 Bluetooth and up to 3 extensions with 40 programmable buttons (with LED indication). 2 GE ports (10/100/1000). Includes adapter. (eSpace 7950 or equivalent)	pcs	2	913.58	1827.16	Others	Material
5.7	Vrbas	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, indoor mounted. Dial diameter 30cm. (Bodet PROFIL 930 NTP or equivalent)	pcs	2	303.27	606.54	Others	Material
5.7	Vrbas	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm.With internal LED illumination (Bodet PROFIL 960E SE NTPor equivalent)	pcs	1	2,737.50	2737.50	Others	Material

Volume	Site	System	Item Description	Jed. mera	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.7	Vrbas	CLOCK SYSTEM	Double-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm.With internal LED ilumination. (2xBodet PROFIL 960E SE NTP or equivalent)	pcs	1	4,159.92	4159.92	Others	Material
5.7	Vrbas	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 30cm, indoor mounting. With all the necessary Materialand works	pcs	2	93.93	187.86	Others	Material
5.7	Vrbas	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 60cm, outdoor mounting. With all the necessary Materialand works	pcs	2	308.64	617.28	Others	Material
5.7	Vrbas	CLOCK SYSTEM	Small sundry items and other unspecified Materialand works	set	1	442.83	442.83	Others	Material
5.7	Vrbas	INFORMATION DISPLAY SYSTEM	TFT information display for indoor mounting, E-LED illumination, size 32", format 16:9 (IP20). Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 350 cd/m², contrast 3000:1, backlight. Integrated industrial PC. (CONRAC 6132 PD or equivalent)	pcs	1	2,500.00	2500.00	Others	Material
5.7	Vrbas	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 42", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 700 cd/m², contrast 1300:1, backlight. Integrated Industrial PC. (CONRAC 8942PD or equivalent)	pcs	1	2,500.00	2500.00	Others	Material
5.7	Vrbas	INFORMATION DISPLAY SYSTEM	Bracket for mounting the single-sided Information display with all necessary materials.	pcs	2	656.00	1312.00	Others	Material
5.7	Vrbas	INFORMATION DISPLAY SYSTEM	Small sundry items and other unspecified Materialand works	set	1	800.00	800.00	Others	Material
5.7	Vrbas	SOS SYSTEM	The central panel with the following functions: reception and light-sound call presentation, quitting calls and conducting all-call protocols, connecting to the Ethernet network. Completed with power supply unit and all mounting equipment.	pcs	1	551.53	551.53	Others	Material
5.7	Vrbas	SOS SYSTEM	A call-quit combination device. It has the following functions: reception of information from the call pushbuttons, transmission of information to the central panel, call termination. Comes complete with all mounting equipment. (PRK 2040 or equivalent)	pcs	1	92.59	92.59	Others	Material
5.7	Vrbas	SOS SYSTEM	Room signal light, two-colored, has a light call presentation function. (SSL 2002 or equivalent)	pcs	2	29.52	59.04	Others	Material
5.7	Vrbas	SOS SYSTEM	SOS pushbutton for mounting next to the toilet in restroom, together with the mounting kit	pcs	1	20.13	20.13	Others	Material
5.7	Vrbas	SOS SYSTEM	Distribution box equipped with serial terminals for parallel separation of the installation without halogen elements	pcs	2	37.57	75.14	Others	Material
5.7	Vrbas	SOS SYSTEM	Installation cable type:JH(St)H 3x2x0.8	m	50	0.71	35.50	Others	Material
5.7	Vrbas	SOS SYSTEM	Installation cable type:JH(St)H 2x2x0.6	m	40	0.61	24.40	Others	Material
5.7	Vrbas	SOS SYSTEM	Small sundry items and other unspecified Materialand works	set	1	67.10	67.10	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	1	18.79	18.79	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	1	56.36	56.36	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	1	8.05	8.05	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	set	1	406.60	406.60	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	set	1	203.97	203.97	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 24 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	2	18.79	37.58	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	2	56.36	112.72	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	10	126.14	1261.40	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Temperature and humidity sensor (AP9335TH or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	4	8.05	32.20	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	set	1	406.60	406.60	Others	Material
5.7	Vrbas	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	set	1	203.97	203.97	Others	Material
5.7	Vrbas	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	pcs	1	2,000.00	2000.00	Others	Material
5.7	Vrbas	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	pcs	1	2,000.00	2000.00	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Distribution cabinet for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with following elements:	pcs	1	136.00	136.00	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- disconnection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- connection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- marking block	pcs	2	6.55	13.10	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- fuse module 10x2 10KA / 10A	pcs	2	19.22	38.44	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- mechanical earthing drains	pcs	4	8.64	34.56	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building). (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø40	m	10	1.90	19.00	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building). (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø36	m	50	1.90	95.00	Others	Material
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Installation cable, type:- J-H(St)H 10x2x0,8	m	80	3.00	240.00	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.7	Vrbas	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Small sundry items and other unspecified Materialand works	set	1	440.15	440.15	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	3	138.88	416.64	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	12	10.46	125.53	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	4	19.87	79.48	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH		6	86.00	516.00	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	3	121.59	364.76	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	97	5.09	493.89	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	14	9.46	132.50	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	1	121.59	121.59	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	24	5.09	122.20	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	9	9.46	85.18	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Freestanding antivandal cabinet for outdoor installation, double walls, corrosion protection housing, IP 65, dimension 800x650x600mm, equipped with sets for mounting 19 "equipment and 19" profiles, 650 mm wide horizontal rails and 600 mm deep horizontal rails and 100 mm high stand, equipped with the following equipment: rings for vertical managment of cables from the front and back of the cabinet, mounting equipment sets, marking labels for marking the patch and power cords, rail for equipotential bonding, power rails with minimum 8 schuko socket outlets in metal housing with cable and switch (Conteg, Conteg VO-P8-80 / 80, Conteg DP-MO-100, Penduit LJSL4-Y3-2.5, Conteg DP-ZE-RAM, Conteg DP-RP-08SCHUS) or equivalent)	pcs	6	5,207.93	31247.61	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Base for installation in concrete with all necessary mounting material	pcs	6	291.20	1747.20	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Air conditioner for sideways installation on the cabinet, power 380W, 230V, with NO thermostat (Conteg AC-WMO-04-400J and ID-EO-TH or equivalent)	pcs	6	-	0.00	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Heater for cabinet, power 250W, fan with flow 48 m3 / h, 230 VAC and NC thermostat (Conteg ID-EH-50F-4, Conteg ID-EO-TC or equivalent)	pcs	6	-	0.00	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- steel rail DIN width 35mm	m	7.2	4.48	32.26	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	6	138.88	833.28	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	12	10.46	125.53	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	12	19.87	238.43	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	12	121.59	1459.02	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	288	5.09	1466.41	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	24	9.46	227.14	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	45x45mm adapter for installation in parapet and/or flush wall mounted socket and/or floor socket and/or set, complete with a support for the installed module for structured cabling system (Schrack Technik HSEMD02W2F or equivalent)	pcs	19	0.92	17.48	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Shielded micro socket cat.6a for the installation in structured cabling system socket (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	38	4.57	173.66	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Single socket for installation in the housing of IP equipment devices (Schrack Technik HSEAP842WF TOOLLESS LINE, HSED01UW2S TOOLLESS or equivalent)	pcs	107	2.54	271.78	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in the housing of IP equipment devices (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	4	4.57	18.28	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	4	5.09	20.36	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Fiber optic cable for underground laying, with 8 OM3 fibers, with rodent protection, for direct burial, with PE jacket	m	750	0.47	350.13	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	PE pipe Ø 40mm for the installation of fiber optic cable	m	750	0.65	487.20	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Coupling for plastic pipes PE Ø 40mm	pcs	10	1.81	18.10	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Plug for PE pipe Ø 40mm	pcs	20	0.23	4.53	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, external	m	5700	0.85	4836.36	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, halogen free	m	2400	0.63	1503.07	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 10x2x0.8	m	20	3.00	60.00	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 2x2x0.8	m	50	0.70	34.99	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Mali Idjos	COMMON COMMUNICATION NETWORK	Network IP address application and planning	set	1	-	0.00	Others	Material with service
5.7	Mali Idjos	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 16 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	sel	1	1,774.47	1774.47	Others	Material
5.7	Mali Idjos	VoIP COMMUNICATION SYSTEM	The basic type of IP phone. 320x240 pixels with 2.83 "color LCD monitor. Provides 3 lines, 10 programmable and 4 fixed buttons (with LED indication), Speaker / Headset / Mute / Navigation. 2 GE ports (10/100/1000). Comes with an adapter. (eSpace 7910 or equivalent)	pcs	1	547.61	547.61	Others	Material
5.7	Mali Idjos	VoIP COMMUNICATION SYSTEM	A more complex type of IP phone. 800x480 pixels with 5 "LCD color monitor. Provides 6 lines, 1 Bluetooth and up to 3 extensions with 40 programmable buttons (with LED indication). 2 GE ports (10/100/1000). Includes adapter (eSpace 7950 or equivalent)	pcs	1	913.58	913.58	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	Call station with speaker and microphone on a flexible neck, with one "all call" function key, light indication. It supports redundant connections with the rest of the public address system. It is possible to configure the call station from the network controller. Any malfunction is controlled by the controller and in case of a failure of the controller it is possible to continue the announcement of evacuation messages (LBB 4430/00 or equivalent)	pcs	1	464.30	464.30	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	Keypad for the call station with a minimum of 5 programmable keys, light indication. The keys can be programmed to select the sound source, control the call activation, sound volume, area and group selection, etc. (LBB4437/00 or equivalent)	pcs	1	237.52	237.52	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	Column loudspeaker for external mounting, supports EN54- rated power 60W/100V with leads 60/30/15W- SPL (1m / 1W / 1kHz) 97dB- vertical angle of radiation (1kHz / 4kHz) 55°/18°- horizontal angle of radiation (1kHz / 4kHz) 170°/90° - frequency range 190Hz-20kHz includes all protective and pole/wall mounting accessories (LBC-3210/00 or equivalent)	pcs	60	630.70	37842.00	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	Waterproof distribution box equipped with a serial terminal for parallel separation of the installation	pcs	48	20.13	966.24	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	Network audio controller, controls and routes up to 28 audio channels, powers the system's peripherals; minimum 4 audio inputs and 4 audio outputs, setting via PC, with LCD display, up to 256 priorities. It controls hundreds of zones and at least 30 other audio network devices. Audio messages can be downloaded from a computer in wave format. It has the possibility of audio processing for all audio outputs and inputs - parametric equalizer, limiter and gain are easily set using configuration software. It supports redundant connections with computer and audio network. Controls the status of equipment in the public address system and stores a minimum of 200 error messages. Monitoring of audio connections. In set with all needed software. Installation in 19" rack, (PRS-NCO3, PRS-[illegible])	pcs	1	3,849.94	3849.94	Others	Material

Volume	Site	System	Item Description	Jed more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	500W power output amplifier with automatic volume control, redundant network connection, audio processing and delay configuration for each channel amplifier. LCD display, 8 control inputs and 4 control outputs, four zones. Each control input has the ability to control open connections and short circuits. Control outputs are programmable. Supports standard EN 54, mounting in 19 "rack (BOSCH PRS-2P250 , LBB4140/00 , LBB4143/00, Bosch LBB4146/00 or equivalent)	pcs	3	2,618.07	7854.21	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	Network interface for real-time uncompressed digital audio distribution over industry standard IP networks. Contains two optical network connections, Two RJ45 Ethernet connectors (long distance audio distribution), 8 supervised control inputs and 5 control outputs with the possibility of installation in 19 " rack. The unit is self-monitoring and continually reports its status to the network controller. It can also route audio channels between itself and other interfaces, in the same or in other audio system networks over WAN, or to third party units. Fully programmable and controlable over audio controller. Media transport and system control can run in encrypted mode for secure applications. Contains DSP processor and display for VU meter. Supports EN 54 standard (PRS-4OMI4 or equivalent)	pcs	1	2,458.38	2458.38	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	An ambient microphone (LBB 9000/20 or equivalent) with a mounting bracket	pcs	6	88.57	531.42	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	System cable 2m, (LBB 4416/02 or equivalent)	pcs	5	44.28	221.40	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	System cable 10m, (LBB 4416/10 or equivalent)	pcs	2	97.96	195.92	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	System cable 50m, (LBB 4416/50 or equivalent)	pcs	1	351.58	351.58	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	Equipment needed to connect the system cables (LBB 4417/00, or equivalent)	set	1	148.95	148.95	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiYCY 2x2.5mm²	m	2500	1.10	2750.00	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiHCH 2x2.5mm²	m	600	1.20	720.00	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	- microphone cable halogen free	m	300	2.30	690.00	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	- microphone cable external installation	m	800	11.00	8800.00	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	Small sundry items and other unspecified Material and works	set	1	203.97	203.97	Others	Material
5.7	Mali Idjos	PUBLIC ADDRESS SYSTEM	Broadcast sound field test and display content debugging	set	1	500.00	500.00	Others	Material with service
5.7	Mali Idjos	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, indoor mounted. Dial diameter 30cm (Bodet PROFIL 930 NTP or equivalent)	pcs	3	303.27	909.81	Others	Material
5.7	Mali Idjos	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED illumination (Bodet PROFIL 960E SE NTPor equivalent)	pcs	1	2,737.50	2737.50	Others	Material
5.7	Mali Idjos	CLOCK SYSTEM	Double-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED illumination (2xBodet PROFIL 960E SE NTP or equivalent)	pcs	6	4,159.92	24959.52	Others	Material
5.7	Mali Idjos	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 30cm, indoor mounting. With all the necessary Materialand works	pcs	3	93.93	281.79	Others	Material
5.7	Mali Idjos	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 60cm, outdoor mounting. With all the necessary Materialand works	pcs	7	308.64	2160.48	Others	Material
5.7	Mali Idjos	CLOCK SYSTEM	Small sundry items and other unspecified Materialand works	set	1	442.83	442.83	Others	Material
5.7	Mali Idjos	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 42", formal 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 700 cd/m², contrast 1300:1, backlight. Integrated industrial PC (CONRAC 6942PD or equivalent)	pcs	1	2,500.00	2500.00	Others	Material
5.7	Mali Idjos	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 32", formal 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 450 cd/m², contrast 1300:1, backlight. Integrated industrial PC (CONRAC 6932PD or equivalent)	pcs	12	2,500.00	30000.00	Others	Material
5.7	Mali Idjos	INFORMATION DISPLAY SYSTEM	Bracket for mounting the single-sided information display with all necessary materials	pcs	13	656.00	8528.00	Others	Material
5.7	Mali Idjos	INFORMATION DISPLAY SYSTEM	Small sundry items and other unspecified Materialand works	set	1	800.00	800.00	Others	Material
5.7	Mali Idjos	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 24 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Mali Idjos	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	2	18.79	37.58	Others	Material
5.7	Mali Idjos	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	2	56.36	112.72	Others	Material
5.7	Mali Idjos	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	10	126.14	1261.40	Others	Material
5.7	Mali Idjos	ENVIRONMENTAL MONITORING SYSTEM	Temperature and humidity sensor (AP9335TH or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Mali Idjos	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	4	8.05	32.20	Others	Material
5.7	Mali Idjos	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	sel	1	406.60	406.60	Others	Material
5.7	Mali Idjos	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	set	1	203.97	203.97	Others	Material
5.7	Mali Idjos	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	pcs	1	2,000.00	2000.00	Others	Material
5.7	Mali Idjos	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	pcs	1	2,000.00	2000.00	Others	Material
5.7	Mali Idjos	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Distribution cabinet for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with following elements:	pcs	1	136.00	136.00	Others	Material
5.7	Mali Idjos	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- disconnection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Mali Idjos	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- connection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Mali Idjos	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- marking block	pcs	2	6.55	13.10	Others	Material
5.7	Mali Idjos	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- fuse module 10x2 10KA / 10A	pcs	2	19.22	38.44	Others	Material
5.7	Mali Idjos	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- mechanical earthing drains	pcs	4	8.64	34.56	Others	Material
5.7	Mali Idjos	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dielzel Univolt FX) or equivalent. Outer diameter:- Ø40	m	10	1.90	19.00	Others	Material
5.7	Mali Idjos	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dielzel Univolt FX) or equivalent. Outer diameter:- Ø36	m	50	1.90	95.00	Others	Material
5.7	Mali Idjos	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Installation cable, type:- J-H(St)H 10x2x0.8	m	80	3.00	240.00	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Mali Idjos	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Small sundry items and other unspecified Materialand works	set	1	440.15	440.15	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM, pigtails 2m long, with 12 E2000/APC compact adapters	kom	1	138.88	138.88	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	3	138.88	416.64	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	16	10.46	167.37	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657, length 2m, LSZH	pcs	2	22.01	44.02	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	4	19.87	79.48	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657.A1, length 50m, LSZH	pcs	6	86.00	516.00	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	2	121.59	243.17	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	2	31.75	63.50	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	98	5.09	498.99	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	16	9.46	151.42	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	1	121.59	121.59	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	24	5.09	122.20	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	3	9.46	28.39	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- universal panel (for roof mounting) 19 ", with 2 fans (Schrack Technik DLT44802-A or equivalent)	pcs	1	134.41	134.41	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM, pigtails 2m long, with 12 E2000/APC compact adapters	kom	1	138.88	138.88	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657, length 2m, LSZH	pcs	2	22.01	44.02	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	3	19.87	59.61	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	3	121.59	364.76	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	3	31.75	95.26	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	147	5.09	748.48	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	16	9.46	151.42	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Freestanding antivandal cabinet for outdoor installation, double walls, corrosion protection housing, IP 65, dimension 800x650x600mm, equipped with sets for mounting 19 "equipment and 19" profiles, 650 mm wide horizontal rails and 600 mm deep horizontal rails and 100 mm high stand, equipped with the following equipment: rings for vertical managment of cables from the front and back of the cabinet, mounting equipment sets, marking labels for marking the patch and power cords, rail for equipotential bonding, power rails with minimum 8 schuko socket outlets in metal housing with cable and switch (Conteg, Conteg VO-P8-80 / 80, Conteg DP-MO-100, Penduit LJSL4-Y3-2.5, Conteg DP-ZE-RAM, Conteg DP-RP-08SCHUS) or equivalent)	pcs	8	5,207.93	41663.48	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Base for installation in concrete with all necessary mounting material	pcs	8	291.20	2329.60	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Air conditioner for sideways installation on the cabinet, power 380W, 230V, with NO thermostat (Conteg AC-WMO-04-400J and ID-EO-TH or equivalent)	pcs	8	-	0.00	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Heater for cabinet, power 250W, fan with flow 48 m3 / h, 230 VAC and NC thermostat (Conteg ID-EH-50F-4, Conteg ID-EO-TC or equivalent)	pcs	8	-	0.00	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- steel rail DIN width 35mm	m	9.6	4.48	43.01	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	8	138.88	1111.04	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	16	10.46	167.37	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	16	19.87	317.90	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	16	121.59	1945.36	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	384	5.09	1955.21	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	32	9.46	302.85	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Distribution cabinet (PO-TK 1,2) for flushed wall mounting made of steel sheet, dimension 260x260x145mm, mounting frames for modules, equipped with tree connection and two disconnection modules 10x2 with IDC connectors, with double contacts on the jumper side, two marking blocks, tree fuse modules 10x2 10KA / 10A and five mechanical earthing drains	pcs	2	95.03	190.06	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	45x45mm adapter for installation in parapet and/or flush wall mounted socket and/or floor socket and/or set, complete with a support for the installed module for structured cabling system (Schrack Technik HSEMD02W2F or equivalent)	pcs	43	0.92	39.56	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Shielded micro socket cat 6a for the installation in structured cabling system socket (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	86	4.57	393.02	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Single socket for installation in the housing of IP equipment devices (Schrack Technik HSEAP842WF TOOLLESS LINE, HSED01UW2S TOOLLESS or equivalent)	pcs	176	2.54	447.04	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in the housing of IP equipment devices (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	1	4.57	4.57	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	1	5.09	5.09	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Fiber optic cable for underground laying, with 8 OM3 fibers, with rodent protection, for direct burial, with PE jacket	m	1200	0.47	560.20	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Fiber optic cable for underground laying, with 24 fibers in accordance to G.657 recommendation in all according to technical conditions, with rodent protection, for direct burial, with PE jacket	m	100	0.47	46.68	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	PE pipe Ø 40mm for the installation of fiber optic cable	m	1300	0.65	844.48	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Coupling for plastic pipes PE Ø 40mm	pcs	10	1.81	18.10	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Plug for PE pipe Ø 40mm	pcs	20	0.23	4.53	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	TK 59 M 15*4*0.8	m	100	2.86	285.71	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, external	m	7900	0.85	6703.03	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, halogen free	m	6000	0.63	3757.68	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 10x2x0.8	m	20	3.00	60.00	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 2x2x0.8	m	50	0.70	34.99	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	Network IP address application and planning	set	1	-	0.00	Others	Material
5.7	Backa Topola	VoIP COMMUNICATION SYSTEM	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	31,235.64	31235.64	Others	Material
5.7	Backa Topola	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 16 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	set	2	1,774.47	3548.94	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Backa Topola	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 8 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	set	1	888.99	888.99	Others	Material
5.7	Backa Topola	VoIP COMMUNICATION SYSTEM	The basic type of IP phone. 320x240 pixels with 2.83 "color LCD monitor. Provides 3 lines. 10 programmable and 4 fixed buttons (with LED indication), Speaker / Headset / Mute / Navigation. 2 GE ports (10/100/1000) Comes with an adapter. (eSpace 7910 or equivalent)	pcs	5	547.61	2738.05	Others	Material
5.7	Backa Topola	VoIP COMMUNICATION SYSTEM	A more complex type of IP phone. 800x480 pixels with 5 "LCD color monitor. Provides 6 lines, 1 Bluetooth and up to 3 extensions with 40 programmable buttons (with LED indication). 2 GE ports (10/100/1000). Includes adapter (eSpace 7950 or equivalent)	pcs	2	913.58	1827.16	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Call station with speaker and microphone on a flexible neck, with one "all call" function key, light indication. It supports redundant connections with the rest of the public address system. It is possible to configure the call station from the network controller. Any malfunction is controlled by the controller and in case of a failure of the controller it is possible to continue the announcement of evacuation messages (LBB 4430/00 or equivalent)	pcs	1	464.30	464.30	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Keypad for the call station with a minimum of 5 programmable keys, light indication. The keys can be programmed to select the sound source, control the call activation, sound volume, area and group selection, etc. (LBB4432/00 or equivalent)	pcs	1	237.52	237.52	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Ceiling speaker for indoor installation in suspended ceiling, compliant to EN54. IP21 (dimension adjusted with lower ceiling):- Rated power 6W / 100V with leads 6/3 / 1,5 / 0,75W- SPL (1m / 1W / 1kHz) 89dB-angle of coverage 1kHz/4kHz 180°/62°- frequency range 70Hz- 20kHz Includes protection boxes and all mounting accessories (LC1-UM06E8, LC1-CMR, LC1-C8B or equivalent)	pcs	19	60.39	1147.41	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Column loudspeaker for external mounting, supports EN54- rated power 60W/100V with leads 60/30/15W- SPL (1m / 1W / 1kHz) 97dB- vertical angle of radiation (1kHz / 4kHz) 55°/18°- horizontal angle of radiation (1kHz / 4kHz) 170°/90° - frequency range 190Hz-20kHz Includes all protective and pole/wall mounting accessories. (LBC 3210/00 or equivalent)	pcs	95	630.70	59916.50	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Horn, IP 65, complete with driver- rated power 30W/100V with leads 30/15/7,5W- vertical angle of radiation (1kHz / 4kHz) 98°/118°- horizontal angle of radiation (1kHz / 4kHz) 68°- SPL (1m / 1W / 1kHz) 100dB- frequency range 212Hz- 20kHzIncludes all protective and mounting accessories (LH1-UC30E or equivalent)	pcs	5	228.12	1140.60	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Waterproof distribution box equipped with a serial terminal for parallel separation of the installation	pcs	76	20.13	1529.88	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Distribution box equipped with serial terminals for parallel separation of the installation without halogen elements	pcs	19	20.13	382.47	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Alenuator 12W / 100V for wall mounting, with connection box with terminals for 1.5mm²	pcs	2	53.75	107.50	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Alenuator 36W/100V for wall mounting, with connection box with terminals for 1.5mm²	pcs	2	59.04	118.08	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Network audio controller, controls and routes up to 28 audio channels, powers the system's peripherals; minimum 4 audio inputs and 4 audio outputs, setting via PC, with LCD display, up to 256 priorities, It controls hundreds of zones and at least 30 other audio network devices. Audio messages can be downloaded from a computer in wave format. It has the possibility of audio processing for all audio outputs and inputs - parametric equalizer, limiter and gain are easily set using configuration software. It supports redundant connections with computer and audio network. Controls the status of equipment in the public address system and stores a minimum of 200 error messages. Monitoring of audio connections. In set with all needed software. Installation in 19" rack, (PRS-NCO3, PRS-[illegible] or equivalent)	pcs	1	3,849.94	3849.94	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	500W power output amplifier with automatic volume control, redundant network connection, audio processing and delay configuration for each channel amplifier, LCD display, 8 control inputs and 4 control outputs, four zones. Each control input has the ability to control open connections and short circuits. Control outputs are programmable. Supports standard EN 54, mounting in 19 "rack (BOSCH PRS-2P250, LBB4440/00, LBB4443/00, Bosch LBB4446/00 or equivalent)	pcs	6	2,618.07	15708.42	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Network interface for real-time uncompressed digital audio distribution over industry standard IP networks. Contains two optical network connections. Two RJ45 Ethernet connectors (long distance audio distribution). 8 supervised control inputs and 5 control outputs with the possibility of installation in 19 " rack. The unit is self-monitoring and continually reports its status to the network controller. It can also route audio channels between itself and other interfaces, in the same or in other audio system networks over WAN, or to third party units. Fully programmable and controlable over audio controller. Media transport and system control can run in encrypted mode for secure applications. Contains DSP processor and display for VU meter. Supports EN 54 standard (PRS-4OMI4 or [illegible] or equivalent)	pcs	1	2,458.38	2458.38	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	An ambient microphone (LBB 9600/20 or equivalent) with a mounting bracket	pcs	8	88.57	708.56	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	System cable 2m, (LBB 4416/02 or equivalent)	pcs	8	44.28	354.24	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	System cable 10m, (LBB 4416/10 or equivalent)	pcs	2	97.96	195.92	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	System cable 50m. (LBB 4416/50 or equivalent)	pcs	1	351.58	351.58	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Equipment needed to connect the system cables (LBB 4417/00, or equivalent)	set	1	148.95	148.95	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiYCY 2x2 5mm²	m	4500	1.10	4950.00	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiHCH 2x2 5mm²	m	1000	1.20	1200.00	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiYCY 3x2.5mm²	m	200	1.80	360.00	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiHCH 3x2.5mm²	m	200	1.80	360.00	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Installation cable, type:- microphone cable halogen free	m	300	2.30	690.00	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Installation cable, type:- microphone cable external installation	m	1000	11.00	11000.00	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Small sundry items and other unspecified Material and works	set	1	203.97	203.97	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Broadcast sound field test and display content debugging	set	1	500.00	500.00	Others	Material with service
5.7	Backa Topola	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, indoor mounted. Dial diameter 30cm. (Bodet PROFIL 930 NTP or equivalent)	pcs	10	303.27	3032.70	Others	Material
5.7	Backa Topola	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm.With internal LED illumination. (Bodet PROFIL 960E SE NTPor equivalent)	pcs	1	2,737.50	2737.50	Others	Material
5.7	Backa Topola	CLOCK SYSTEM	Double-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED illumination. (2xBodet PROFIL 960E SE NTP or equivalent)	pcs	8	4,159.92	33279.36	Others	Material
5.7	Backa Topola	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 30cm, indoor mounting. With all the necessary Materialand works.	pcs	10	93.93	939.30	Others	Material
5.7	Backa Topola	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 60cm, outdoor mounting. With all the necessary Materialand works.	pcs	9	308.64	2777.76	Others	Material
5.7	Backa Topola	CLOCK SYSTEM	Small sundry items and other unspecified Materialand works	set	1	442.83	442.83	Others	Material
5.7	Backa Topola	INFORMATION DISPLAY SYSTEM	TFT information display for indoor mounting, E-LED illumination, size 32", format 16:9 (IP20). Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 350 cd/m², contrast 3000:1, backlight. Integrated industrial PC (CONRAC 6132 PD or equivalent)	pcs	1	2,500.00	2500.00	Others	Material
5.7	Backa Topola	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 42", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 700 cd/m², contrast 1300:1, backlight. Integrated industrial PC (CONRAC 6942PD or equivalent)	pcs	1	2,500.00	2500.00	Others	Material
5.7	Backa Topola	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 32", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 450 cd/m², contrast 1300:1, backlight. Integrated industrial PC (CONRAC 6932PD or equivalent)	pcs	19	2,500.00	47500.00	Others	Material
5.7	Backa Topola	INFORMATION DISPLAY SYSTEM	Bracket for mounting the single-sided information display with all necessary materials.	pcs	21	656.00	13776.00	Others	Material
5.7	Backa Topola	INFORMATION DISPLAY SYSTEM	Small sundry items and other unspecified Materialand works	set	1	800.00	800.00	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBDD0150 or equivalent)	pcs	1	517.98	517.98	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	1	18.79	18.79	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	1	56.36	56.36	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	1	8.05	8.05	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	set	1	406.60	406.60	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	set	1	203.97	203.97	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 24 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	2	18.79	37.58	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	2	56.36	112.72	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	10	126.14	1261.40	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	Temperature and humidity sensor (AP9335TH or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	4	8.05	32.20	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	set	1	406.60	406.60	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	set	1	203.97	203.97	Others	Material
5.7	Backa Topola	TWO-WAY COMMUNICATION MICROPHONE SYSTEM	Set for hands-free two-way communication on counters composed of central unit and sub unit. Adapted to integrated with induction loop system for hearing assistance. In a set with power unit and all installation cable and equipment. (ATEIS Megelan Compact or equivalent)	set	1	1,650.55	1650.55	Others	Material
5.7	Backa Topola	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	pcs	1	2,000.00	2000.00	Others	Material
5.7	Backa Topola	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	pcs	1	2,000.00	2000.00	Others	Material
5.7	Backa Topola	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Distribution cabinet for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with following elements:	pcs	1	136.00	136.00	Others	Material
5.7	Backa Topola	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- disconnection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Backa Topola	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- connection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Backa Topola	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- marking block	pcs	2	6.55	13.10	Others	Material
5.7	Backa Topola	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- fuse module 10x2 10KA / 10A	pcs	2	19.22	38.44	Others	Material
5.7	Backa Topola	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- mechanical earthing drains	pcs	4	8.64	34.56	Others	Material
5.7	Backa Topola	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø40	m	10	1.90	19.00	Others	Material
5.7	Backa Topola	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø36	m	50	1.90	95.00	Others	Material
5.7	Backa Topola	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Installation cable, type:- J-H(St)H 10x2x0,8	m	80	3.00	240.00	Others	Material
5.7	Backa Topola	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Small sundry items and other unspecified Materialand works	set	1	440.15	440.15	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LSOH (Schrack Technik H6QTG02K0G or equivalent)	pcs	60	5.09	305.50	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik, HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Backa Topola	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	6	9.46	56.78	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Call station with speaker and microphone on a flexible neck, with one "eli call" function key, light indication. It supports redundant connections with the rest of the pubic address system. It is possible to configure the call station from the network controller. Any malfunction is controlled by the controller and in case of a failure of the controller it is possible to continue the announcement of evacuation messages (LBB 4130/00 or equivalent)	pcs	1	464.30	464.30	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Keypad for the call station with a minimum of 5 programmable keys, light indication. The keys can be programmed to select the sound source, control the call activation, sound volume, area and group selection, etc. (LBB4432/00 or equivalent)	pcs	2	237.52	475.04	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Network audio controller, controls and routes up to 28 audio channels, powers the system's peripherals; minimum 4 audio inputs and 4 audio outputs, setting via PC, with LCD display, up to 256 priorities. It controls hundreds of zones and at least 30 other audio network devices. Audio messages can be downloaded from a computer in wave format. It has the possibility of audio processing for all audio outputs and inputs - parametric equalizer, limiter and gain are easily set using configuration software. It supports redundant connections with computer and audio network. Controls the status of equipment in the public address system and stores a minimum of 200 error messages. Monitoring of audio connections. In set with all needed software. Installation in 19" rack, (PRS-NCO3, PRS-[illegible] or equivalent	pcs	1	3,849.94	3849.94	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Network interface for real-time uncompressed digital audio distribution over industry standard IP networks. Contains two optical network connections. Two RJ45 Ethernet connectors (long distance audio distribution), 8 supervised control inputs and 5 control outputs with the possibility of installation in 19 " rack. The unit is self-monitoring and continually reports its status to the network controller. It can also route audio channels between itself and other interfaces, in the same or in other audio system networks over WAN, or to third party units. Fully programmable and controlable over audio controller. Media transport and system control can run in encrypted mode for secure applications. Contains DSP processor and display for VU meter. Supports EN 54 standard (PRS-4OMI4 or equivalent)	pcs	1	2,458.38	2458.38	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Workstations with one 32 " monitor for each On-duty staff room	pcs	1	1,000.00	1000.00	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Software with a graphical interface for the operator with an overview of the zones. Supports a variety of audio subsystems, call control and BGM. Allows you to start and end the call. Multiple calls simultaneously can be active from the same client application. Selecting different BGM channels and volume can be controlled and changed by zone, (PRS-CSC-E PC Call Station Client or equivalent)	pcs	1	289.85	289.85	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Interface for transition from system cable to optical cable (PRS-FINS or equivalent)	pcs	4	724.63	2898.52	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH	pcs	4	30.00	120.00	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	System cable 2m, (LBB 4416/02 or equivalent)	pcs	1	44.28	44.28	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	System cable 10m, (LBB 4416/10 or equivalent)	pcs	2	97.96	195.92	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	System cable 50m, (LBB 4416/50 or equivalent)	pcs	2	351.58	703.16	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Equipment needed to connect the system cables (LBB 4417/00, or equivalent)	set	1	148.95	148.96	Others	Material
5.7	Backa Topola	PUBLIC ADDRESS SYSTEM	Small sundry items and other unspecified Material and works	set	1	203.97	203.97	Others	Material
5.7	Backa Topola	ENVIRONMENTAL MONITORING SYSTEM	Workstations with two 32 " monitors for each On-duty staff room	set	1	1,000.00	1000.00	Others	Material
5.7	Backa Topola	INTEGRATION OF SECURITY SYSTEMS	Workstations with two 32 " monitors for each On-duty staff room	set	1	1,000.00	1000.00	Others	Material
5.7	Backa Topola	INTEGRATION OF SECURITY SYSTEMS	Parallel panel (FMR 5000 or equivalent)	pcs	1	668.27	668.27	Others	Material
5.7	Backa Topola	INTEGRATION OF SECURITY SYSTEMS	- system cable for parallel panel	m	30	2.68	80.40	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	3	138.88	416.64	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	12	10.46	125.59	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	4	19.87	79.48	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH	pcs	6	86.00	516.00	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	3	121.59	364.76	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	97	5.09	493.89	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	14	9.46	132.50	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	1	121.59	121.59	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	24	5.09	122.20	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	9	9.46	85.18	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Freestanding antivandal cabinet for outdoor installation, double walls, corrosion protection housing, IP 65, dimension 800x650x600mm, equipped with sets for mounting 19 "equipment and 19" profiles, 650 mm wide horizontal rails and 600 mm deep horizontal rails and 100 mm high stand, equipped with the following equipment: rings for vertical managment of cables from the front and back of the cabinet, mounting equipment sets, marking labels for marking the patch and power cords, rail for equipotential bonding, power rails with minimum 8 schuko socket outlets in metal housing with cable and switch (Conteg, Conteg VO-P8-80 / 80, Conteg DP-MO-100, Penduit LJSL4-Y3-2.5, Conteg DP-ZE-RAM, Conteg DP-RP-08SCHUS) or equivalent)	pcs	6	5,207.93	31247.61	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Base for installation in concrete with all necessary mounting material	pcs	6	291.20	1747.20	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Air conditioner for sideways installation on the cabinet, power 380W, 230V, with NO thermostat (Conteg AC-WMO-04-400J and ID-EO-TH or equivalent)	pcs	6	-	0.00	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Heater for cabinet, power 250W, fan with flow 48 m3 / h, 230 VAC and NC thermostat (Conteg ID-EH-50F-4, Conteg ID-EO-TC or equivalent)	pcs	6	-	0.00	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- steel rail DIN width 35mm	m	7.2	4.48	32.26	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	6	138.88	833.28	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	12	10.46	125.53	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	12	19.87	238.43	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	12	121.59	1459.02	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	288	5.09	1466.41	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	24	9.46	227.14	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	45x45mm adapter for installation in parapet and/or flush wall mounted socket and/or floor socket and/or set, complete with a support for the installed module for structured cabling system (Schrack Technik HSEMD02W2F or equivalent)	pcs	20	0.92	18.40	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Shielded micro socket cat 6a for the installation in structured cabling system socket (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	40	4.57	182.80	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Single socket for installation in the housing of IP equipment devices (Schrack Technik HSEAP842WF TOOLLESS LINE, HSET01UW2S TOOLLESS or equivalent)	pcs	108	2.54	274.32	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in the housing of IP equipment devices (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	4	4.57	18.28	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat 6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	4	5.09	20.36	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Fiber optic cable for underground laying, with 8 OM3 fibers, with rodent protection, for direct burial, with PE jacket	m	750	0.47	350.13	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	PE pipe Ø 40mm for the installation of fiber optic cable	m	750	0.65	487.20	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Coupling for plastic pipes PE Ø 40mm.	pcs	10	1.81	18.10	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Plug for PE pipe Ø 40mm	pcs	20	0.23	4.53	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, external	m	6000	0.85	5090.91	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, halogen free	m	2500	0.63	1565.70	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 10x2x0.8	m	20	3.00	60.00	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 2x2x0.8	m	50	0.70	34.99	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Zednik	COMMON COMMUNICATION NETWORK	Network IP address application and planning	set	1	-	0.00	Others	Material with service
5.7	Zednik	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 16 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	set	1	1,774.47	1774.47	Others	Material
5.7	Zednik	VoIP COMMUNICATION SYSTEM	The basic type of IP phone. 320x240 pixels with 2.83 "color LCD monitor. Provides 3 lines, 10 programmable and 4 fixed buttons (with LED indication). Speaker / Headset / Mute / Navigation. 2 GE ports (10/100/1000). Comes with an adapter. (eSpace 7910 or equivalent)	pcs	1	547.61	547.61	Others	Material
5.7	Zednik	VoIP COMMUNICATION SYSTEM	A more complex type of IP phone. 800x480 pixels with 5 "LCD color monitor. Provides 6 lines, 1 Bluetooth and up to 3 extensions with 40 programmable buttons (with LED indication). 2 GE ports (10/100/1000). Includes adapter (eSpace 7950 or equivalent)	pcs	1	913.58	913.58	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Call station with speaker and microphone on a flexible neck, with one "all call" function key, light indication. It supports redundant connections with the rest of the public address system. It is possible to configure the call station from the network controller. Any malfunction is controlled by the controller and in case of a failure of the controller it is possible to continue the announcement of evacuation messages (LBB 4430/00 or equivalent)	pcs	1	464.30	464.30	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Keypad for the call station with a minimum of 5 programmable keys, light indication. The keys can be programmed to select the sound source, control the call activation, sound volume, area and group selection, etc. (LBB4432/00 or equivalent)	pcs	1	237.52	237.52	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Column loudspeaker for external mounting, supports EN54- rated power 60W/100V with leads 60/30/15W- SPL (1m / 1W / 1kHz) 97dB- vertical angle of radiation (1kHz / 4kHz) 55°/18°- horizontal angle of radiation (1kHz / 4kHz) 170°/90° - frequency range 190Hz-20kHz includes all protective and pole/wall mounting accessories. (LBC-3210/00 or equivalent)	pcs	55	630.70	34688.50	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Waterproof distribution box equipped with a serial terminal for parallel separation of the installation	pcs	44	20.13	885.72	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Distribution box equipped with serial terminals for parallel separation of the installation without halogen elements	pcs	15	20.13	301.95	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Network audio controller, controls and routes up to 28 audio channels, powers the system's peripherals; minimum 4 audio inputs and 4 audio outputs, setting via PC, with LCD display, up to 256 priorities. It controls hundreds of zones and at least 30 other audio network devices. Audio messages can be downloaded from a computer in wave format. It has the possibility of audio processing for all audio outputs and inputs - parametric equalizer, limiter and gain are easily set using configuration software. It supports redundant connections with computer and audio network. Controls the status of equipment in the public address system and stores a minimum of 200 error messages. Monitoring of audio connections. In set with all needed software. Installation in 19" rack, (PRS-NCO3, PRS-SWK24-EA or equivalent)	pcs	1	3,849.94	3849.94	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	500W power output amplifier with automatic volume control, redundant network connection, audio processing and delay configuration for each channel amplifier, LCD display, 8 control inputs and 4 control outputs, four zones. Each control input has the ability to control open connections and short circuits. Control outputs are programmable. Supports standard EN 54, mounting in 19 "rack (BOSCH PRS-2P250 - LBB4440/00, LBB4443/00, Bosch LBB4446/00 or equivalent)	pcs	3	2,618.07	7854.21	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Network interface for real-time uncompressed digital audio distribution over industry standard IP networks. Contains two optical network connections, Two RJ45 Ethernet connectors (long distance audio distribution), 8 supervised control inputs and 5 control outputs with the possibility of installation in 19 " rack. The unit is self-monitoring and continually reports its status to the network controller. It can also route audio channels between itself and other interfaces, in the same or in other audio system networks over WAN, or to third party units. Fully programmable and controlable over audio controller. Media transport and system control can run in encrypted mode for secure applications. Contains DSP processor and display for VU meter. Supports EN 54 standard (PRS-4OMI4 or equivalent)	pcs	1	2,458.38	2458.38	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	An ambient microphone (LBB 9600/20 or equivalent) with a mounting bracket	pcs	6	88.57	531.42	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	System cable 2m, (LBB 4416/02 or equivalent)	pcs	5	44.28	221.40	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	System cable 10m, (LBB 4416/10 or equivalent)	pcs	2	97.96	195.92	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	System cable 50m, (LBB 4416/50 or equivalent)	pcs	1	351.58	351.58	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Equipment needed to connect the system cables (LBB 4417/00, or equivalent)	set	1	148.95	148.95	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiYCY 2x2.5mm²	m	2200	1.10	2420.00	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiHCH 2x2.5mm²	m	500	1.20	600.00	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Installation cable, type:- microphone cable halogen free	m	300	2.30	690.00	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Installation cable, type:- microphone cable external installation	m	800	11.00	8800.00	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Small sundry items and other unspecified Material and works	set	1	203.97	203.97	Others	Material
5.7	Zednik	PUBLIC ADDRESS SYSTEM	Broadcast sound field test and display content debugging	set	1	500.00	500.00	Others	Material with service
5.7	Zednik	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, indoor mounted. Dial diameter 30cm. (Bodel PROFIL 930 NTP or equivalent)	pcs	4	303.27	1213.08	Others	Material
5.7	Zednik	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED illumination (Bodel PROFIL 960E SE NTPor equivalent)	pcs	1	2,737.50	2737.50	Others	Material
5.7	Zednik	CLOCK SYSTEM	Double-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED ilumination (2xBodel PROFIL 960E SE NTP or equivalent)	pcs	6	4,159.92	24959.52	Others	Material
5.7	Zednik	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 30cm, indoor mounting. With all the necessary Materialand works	pcs	4	93.93	375.72	Others	Material
5.7	Zednik	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 60cm, outdoor mounting. With all the necessary Materialand works	pcs	7	308.64	2160.48	Others	Material
5.7	Zednik	CLOCK SYSTEM	Small sundry items and other unspecified Materialand works	set	1	442.83	442.83	Others	Material
5.7	Zednik	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 42", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 176°, illumination minimum 700 cd/m², contrast 1300:1, backlight. Integrated industrial PC (CONRAC 6942PD or equivalent)	pcs	1	2,500.00	2500.00	Others	Material
5.7	Zednik	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 32", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 176°, illumination minimum 450 cd/m², contrast 1300:1, backlight. Integrated industrial PC (CONRAC 6932PD or equivalent)	pcs	11	2,500.00	27500.00	Others	Material
5.7	Zednik	INFORMATION DISPLAY SYSTEM	Bracket for mounting the single-sided information display with all necessary materials	pcs	12	656.00	7872.00	Others	Material
5.7	Zednik	INFORMATION DISPLAY SYSTEM	Small sundry items and other unspecified Materialand works	set	1	800.00	800.00	Others	Material
5.7	Zednik	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 24 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBD00150 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Zednik	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	2	18.79	37.58	Others	Material
5.7	Zednik	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	2	56.36	112.72	Others	Material
5.7	Zednik	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	10	126.14	1261.40	Others	Material
5.7	Zednik	ENVIRONMENTAL MONITORING SYSTEM	Temperature and humidity sensor (AP9335TH or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Zednik	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	4	8.05	32.20	Others	Material
5.7	Zednik	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	set	1	406.60	406.60	Others	Material
5.7	Zednik	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	set	1	203.97	203.97	Others	Material
5.7	Zednik	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	pcs	1	2,000.00	2000.00	Others	Material
5.7	Zednik	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	pcs	1	2,000.00	2000.00	Others	Material
5.7	Zednik	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Distribution cabinet for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with following elements:	pcs	1	136.00	136.00	Others	Material

Volumo	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	type
5.7	Zednik	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- disconnection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Zednik	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- connection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Zednik	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- marking block	pcs	2	6.55	13.10	Others	Material
5.7	Zednik	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- fuse module 10x2 10KA / 10A	pcs	2	19.22	38.44	Others	Material
5.7	Zednik	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- mechanical earthing drains	pcs	4	8.64	34.56	Others	Material
5.7	Zednik	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter - Ø40	m	10	1.90	19.00	Others	Material
5.7	Zednik	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø36	m	50	1.90	95.00	Others	Material
5.7	Zednik	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Installation cable, type:- J-H(St)H 10x2x0.8	m	80	3.00	240.00	Others	Material
5.7	Zednik	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Small sundry items and other unspecified Materialand works	set	1	440.15	440.15	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	3	138.88	416.64	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	12	10.46	125.53	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	4	19.87	79.48	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657.A1, length 50m, LSZH	pcs	6	86.00	516.00	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	3	121.59	364.76	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	97	5.09	493.89	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	14	9.46	132.50	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	1	121.59	121.59	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	24	5.09	122.20	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	9	9.46	85.18	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Freestanding antivandal cabinet for outdoor installation, double walls, corrosion protection housing, IP 65, dimension 800x650x600mm, equipped with sets for mounting 19 "equipment and 19" profiles, 650 mm wide horizontal rails and 600 mm deep horizontal rails and 100 mm high stand, equipped with the following equipment: rings for vertical managment of cables from the front and back of the cabinet, mounting equipment sets, marking labels for marking the patch and power cords, rail for equipotential bonding, power rails with minimum 8 schuko socket outlets in metal housing with cable and switch (Conteg, Conteg VO-P8-80 / 80, Conteg DP-MO-100, Penduit LJSL4-Y3-2.5, Conteg DP-ZE-RAM, Conteg DP-RP-08SCHUS) or equivalent)	pcs	6	5,207.93	31247.61	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Base for installation in concrete with all necessary mounting material	pcs	6	291.20	1747.20	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Air conditioner for sideways installation on the cabinet, power 380W, 230V, with NO thermostat (Conteg AC-WMO-04-400J and ID-EO-TH or equivalent)	pcs	6	-	0.00	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Heater for cabinet, power 250W, fan with flow 48 m3 / h, 230 VAC and NC thermostat (Conteg ID-EH-50F-4, Conteg ID-EO-TC or equivalent)	pcs	6	-	0.00	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- steel rail DIN width 35mm	m	7.2	4.48	32.26	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	6	138.88	833.28	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	12	10.46	125.53	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	12	19.87	238.43	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	pcs	12	121.59	1459.02	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	288	5.09	1466.41	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	24	9.46	227.14	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	45x45mm adapter for installation in perapel and/or flush wall mounted socket and/or floor socket and/or set, complete with a support for the installed module for structured cabling system (Schrack Technik HSEMD02W2F or equivalent)	pcs	18	0.92	16.56	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Shielded micro socket cat 6a for the installation in structured cabling system socket (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	36	4.57	164.52	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Single socket for installation in the housing of IP equipment devices (Schrack Technik HSEAP842WF TOOLLESS LINE, HSED01UW2S TOOLLESS or equivalent)	pcs	110	2.54	279.40	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Shielded micro socket cat. 6a for the installation in surface wall mounted socket installed in the housing of IP equipment devices (Schrack Technik HSEMRJ6GWA or equivalent)	pcs	4	4.57	18.28	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Shielded patch cord RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	4	5.09	20.36	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Fiber optic cable for underground laying, with 8 OM3 fibers, with rodent protection, for direct burial, with PE jacket	m	700	0.47	326.79	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	PE pipe Ø 40mm for the installation of fiber optic cable	m	700	0.65	454.72	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Coupling for plastic pipes PE Ø 40mm	pcs	10	1.81	18.10	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Plug for PE pipe Ø 40mm	pcs	20	0.23	4.53	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, external	m	6000	0.85	5090.91	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Category 6A S/FTP cables, halogen free	m	2500	0.63	1565.70	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 10x2x0.8	m	20	3.00	60.00	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Installation cables J-H(St)H 2x2x0.8	m	50	0.70	34.99	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Small sundry items and other unspecified Materialand works	set	1	450.88	450.88	Others	Material
5.7	Naumovicevo	COMMON COMMUNICATION NETWORK	Network IP address application and planning	set	1	-	0.00	Others	Material with service
5.7	Naumovicevo	VoIP COMMUNICATION SYSTEM	Interconnector for analogue devices with a minimum of 16 FXS ports, 1 WAN port, and 2 LAN ports (eSpace IAD132E (T) or equivalent)	set	1	1,774.47	1774.47	Others	Material
5.7	Naumovicevo	VoIP COMMUNICATION SYSTEM	The basic type of IP phone 320x240 pixels with 2.83 "color LCD monitor. Provides 3 lines, 10 programmable and 4 fixed buttons (with LED indication), Speaker / Headset / Mute / Navigation 2 GE ports (10/100/1000). Comes with an adapter (eSpace 7910 or equivalent)	pcs	1	547.61	547.61	Others	Material

Volume	Site	System	Item Description	Jed. more	Quantity A	Unit price ($) B	Price ($) AxB	Vendor	Type
5.7	Naumovicevo	VoIP COMMUNICATION SYSTEM	A more complex type of IP phone. 800x480 pixels with 5 "LCD color monitor. Provides 6 lines. 1 Bluetooth and up to 3 extensions with 40 programmable buttons (with LED indication). 2 GE ports (10/100/1000). Includes adapter (eSpace 7950 or equivalent)	pcs	1	913.58	913.58	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Call station with speaker and microphone on a flexible neck, with one "all call" function key, light indication. It supports redundant connections with the rest of the public address system. It is possible to configure the call station from the network controller. Any malfunction is controlled by the controller and in case of a failure of the controller it is possible to continue the announcement of evacuation messages (LBB 4430/00 or equivalent)	pcs	1	464.30	464.30	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Keypad for the call station with a minimum of 5 programmable keys, light indication. The keys can be programmed to select the sound source, control the call activation, sound volume, area and group selection, etc. (LBB4432/00 or equivalent)	pcs	1	237.52	237.52	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Column loudspeaker for external mounting, supports EN54- rated power 60W/100V with leads 60/30/15W- SPL (1m / 1W / 1kHz) 97dB- vertical angle of radiation (1kHz / 4kHz) 55°/18°- horizontal angle of radiation (1kHz / 4kHz) 170°/90° - frequency range 190Hz-20kHz Includes all protective and pole/wall mounting accessories. (LBC3210/00 or equivalent)	pcs	60	630.70	37842.00	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Waterproof distribution box equipped with a serial terminal for parallel separation of the installation	pcs	44	20.13	885.72	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Distribution box equipped with serial terminals for parallel separation of the installation without halogen elements	pcs	15	20.13	301.95	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Network audio controller, controls and routes up to 28 audio channels, powers the system's peripherals; minimum 4 audio inputs and 4 audio outputs, setting via PC, with LCD display, up to 256 priorities. It controls hundreds of zones and at least 30 other audio network devices. Audio messages can be downloaded from a computer in wave format. It has the possibility of audio processing for all audio outputs and inputs - parametric equalizer, limiter and gain are easily set using configuration software. It supports redundant connections with computer and audio network. Controls the status of equipment in the public address system and stores a minimum of 200 error messages. Monitoring of audio connections. In set with all needed software. Installation in 19" rack, (PRS-NCO3, PRS-[illegible] or equivalent)	pcs	1	3,849.94	3849.94	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	500W power output amplifier with automatic volume control, redundant network connection, audio processing and delay configuration for each channel amplifier, LCD display, 8 control inputs and 4 control outputs, four zones. Each control input has the ability to control open connections and short circuits. Control outputs are programmable. Supports standard EN 54, mounting in 19 "rack (BOSCH PRS-2P250 - LBB4440/00 - LBB4439/00, Bosch LBB4446/00 or equivalent)	pcs	3	2,618.07	7854.21	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Network interface for real-time uncompressed digital audio distribution over industry standard IP networks. Contains two optical network connections, Two RJ45 Ethernet connectors (long distance audio distribution), 8 supervised control inputs and 5 control outputs with the possibility of installation in 19 " rack. The unit is self-monitoring and continually reports its status to the network controller. It can also route audio channels between itself and other interfaces, in the same or in other audio system networks over WAN, or to third party units. Fully programmable and controlable over audio controller. Media transport and system control can run in encrypted mode for secure applications. Contains DSP processor and display for VU meter. Supports EN 54 standard (PRS-4OMI4 or [illegible])	pcs	1	2,458.38	2458.38	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	An ambient microphone (LBB 9600/20 or equivalent) with a mounting bracket	pcs	6	88.57	531.42	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	System cable 2m, (LBB 4416/02 or equivalent)	pcs	5	44.28	221.40	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	System cable 10m, (LBB 4416/10 or equivalent)	pcs	2	97.96	195.92	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	System cable 50m, (LBB 4416/50 or equivalent)	pcs	1	351.58	351.58	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Equipment needed to connect the system cables (LBB 4417/00, or equivalent)	set	1	148.95	148.95	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiYCY 2x2.5mm²	m	2200	1.10	2420.00	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Installation cable, type:- LiHCH 2x2.5mm²	m	300	1.20	360.00	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Installation cable, type:- microphone cable halogen free	m	200	2.30	460.00	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Installation cable, type:- microphone cable external installation	m	800	11.00	8800.00	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Small sundry items and other unspecified Material and works	sel	1	203.97	203.97	Others	Material
5.7	Naumovicevo	PUBLIC ADDRESS SYSTEM	Broadcast sound field test and display content debugging	set	1	500.00	500.00	Others	Material with service
5.7	Naumovicevo	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, indoor mounted. Dial diameter 30cm. (Bodet PROFIL 930 NTP or equivalent)	pcs	4	303.27	1213.08	Others	Material
5.7	Naumovicevo	CLOCK SYSTEM	Single-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm.With internal LED illumination. (Bodet PROFIL 960E SE NTPor equivalent)	pcs	1	2,737.50	2737.50	Others	Material
5.7	Naumovicevo	CLOCK SYSTEM	Double-sided IP analog slave clock, synchronized by NTP signal, outdoor mounted. Dial diameter 60cm With internal LED ilumination. (2xBodet PROFIL 960E SE NTP or equivalent)	pcs	6	4,159.92	24959.52	Others	Material
5.7	Naumovicevo	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 30cm, indoor mounting. With all the necessary Materialand works	pcs	4	93.93	375.72	Others	Material
5.7	Naumovicevo	CLOCK SYSTEM	Fixing bracket for single- or double-sided analog slave clock, diameter 60cm, outdoor mounting. With all the necessary Materialand works	pcs	7	308.64	2160.48	Others	Material
5.7	Naumovicevo	CLOCK SYSTEM	Small sundry items and other unspecified Materialand works	set	1	442.83	442.83	Others	Material
5.7	Naumovicevo	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 42", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 700 cd/m², contrast 1300:1, backlight. Integrated industrial PC. (CONRAC 6942PD or equivalent)	pcs	1	2,500.00	2500.00	Others	Material
5.7	Naumovicevo	INFORMATION DISPLAY SYSTEM	TFT information display for outdoor mounting, E-LED illumination, size 32", format 16:9. Resolution minimum 1920 x 1080 (HD), view angle 178°, illumination minimum 450 cd/m², contrast 1300:1, backlight. Integrated industrial PC. (CONRAC 6932PD or equivalent)	pcs	12	2,500.00	30000.00	Others	Material
5.7	Naumovicevo	INFORMATION DISPLAY SYSTEM	Bracket for mounting the single-sided information display with all necessary materials	pcs	13	656.00	8528.00	Others	Material
5.7	Naumovicevo	INFORMATION DISPLAY SYSTEM	Small sundry items and other unspecified Materialand works	set	1	800.00	800.00	Others	Material
5.7	Naumovicevo	ENVIRONMENTAL MONITORING SYSTEM	The central unit of the system with the necessary extensions for accepting all sensors (minimum 24 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connecting. (APC NetBotz 200, NBDD0150 or equivalent)	pcs	1	517.98	517.98	Others	Material
5.7	Naumovicevo	ENVIRONMENTAL MONITORING SYSTEM	Door status sensor i.e. whether the door is open or closed (NBES0302 or equivalent)	pcs	2	18.79	37.58	Others	Material
5.7	Naumovicevo	ENVIRONMENTAL MONITORING SYSTEM	Liquid leakage sensor of about 4.5m in length (NBES0301 or equivalent)	pcs	2	56.36	112.72	Others	Material
5.7	Naumovicevo	ENVIRONMENTAL MONITORING SYSTEM	Temperature sensor (AP9335T or equivalent)	pcs	10	126.14	1261.40	Others	Material
5.7	Naumovicevo	ENVIRONMENTAL MONITORING SYSTEM	Temperature and humidity sensor (AP9335TH or equivalent)	pcs	1	126.14	126.14	Others	Material
5.7	Naumovicevo	ENVIRONMENTAL MONITORING SYSTEM	Sensor for controlling the NO / NC input of other equipment complete with a cable about 4.5m long (NBES0304 or equivalent)	pcs	4	8.05	32.20	Others	Material
5.7	Naumovicevo	ENVIRONMENTAL MONITORING SYSTEM	System cables and equipment for connecting the sensor to the central device	sel	1	406.60	406.60	Others	Material
5.7	Naumovicevo	ENVIRONMENTAL MONITORING SYSTEM	Small sundry items and other unspecified Materialand works	set	1	203.97	203.97	Others	Material
5.7	Naumovicevo	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	pcs	1	2,000.00	2000.00	Others	Material
5.7	Naumovicevo	AUDIO - VISUAL - INFORMATION SOFTWARE (AVIS)	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment	pcs	1	2,000.00	2000.00	Others	Material

Volume	Site	System	Item Description	Jed. mere	Quantity A	Unit price ($) B	Price ($) AxB	Vundor	type
5.7	Naumovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Distribution cabinet for flushed wall mounting made of steel sheet, dimension 260x260x145mm, with mounting frames for modules, equipped with following elements:	pcs	1	136.00	136.00	Others	Material
5.7	Naumovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- disconnection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Naumovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- connection module 10x2 with IDC connectors, with double contacts on the jumper side	pcs	2	9.72	19.44	Others	Material
5.7	Naumovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- marking block	pcs	2	6.55	13.10	Others	Material
5.7	Naumovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- fuse module 10x2 10KA / 10A	pcs	2	19.22	38.44	Others	Material
5.7	Naumovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	- mechanical earthing drains	pcs	4	8.64	34.56	Others	Material
5.7	Naumovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø40	m	10	1.90	19.00	Others	Material
5.7	Naumovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Halogen-free corrugated installation hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent. Outer diameter:- Ø36	m	50	1.90	95.00	Others	Material
5.7	Naumovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Installation cable, type:- J-H(St)H 10x2x0,8	m	80	3.00	240.00	Others	Material
5.7	Naumovicevo	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Small sundry items and other unspecified Materialand works	sel	1	440.15	440.15	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	5	138.88	694.40	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	20	19.87	397.38	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMBJ6GWA or equivalent)	pcs	25	121.59	3039.63	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	5	31.75	158.76	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	750	5.09	3816.77	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	50	9.46	473.20	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM, pigtails 2m long, with 12 E2000/APC compact adapters	kom	1	138.88	138.88	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	1	19.87	19.87	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMBJ6GWA or equivalent)	pcs	2	121.59	243.17	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	73	5.09	371.69	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	8	9.46	75.71	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM, pigtails 2m long, with 12 E2000/APC compact adapters	kom	1	138.88	138.88	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMBJ6GWA or equivalent)	pcs	3	121.59	364.76	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	97	5.09	493.89	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	10	9.46	94.64	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	1	138.88	138.88	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMBJ6GWA or equivalent)	pcs	3	121.59	364.76	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	97	5.09	493.89	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	10	9.46	94.64	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM, pigtails 2m long, with 12 E2000/APC compact adapters	kom	2	138.88	277.76	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657, length 2m, LSZH	pcs	4	22.01	88.03	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657 A1, length 50m, LSZH		6	86.00	516.00	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	1	19.87	19.87	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMBJ6GWA or equivalent)	pcs	2	121.59	243.17	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	1	31.75	31.75	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	73	5.09	371.69	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	14	9.46	132.50	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	2	19.87	39.74	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat 6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMBJ6GWA or equivalent)	pcs	3	121.59	364.76	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Voice-panel equipped with 25 ports 1HU (Schrack Technik HSERU25IGC or equivalent)	pcs	7	31.75	222.26	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- shielded patch cords RJ45-RJ45 Cat.6A, length 2m, LS0H (Schrack Technik H6GTG02K0G or equivalent)	pcs	247	5.09	1257.65	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	12	9.46	113.57	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	4	19.87	79.48	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- panel for patch cable management, height 1HU (Schrack Technik DBK14805-- or equivalent)	pcs	20	9.46	189.28	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM, pigtails 2m long, with 12 E2000/APC compact adapters	kom	4	138.88	555.52	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic SC duplex OM3 pigtails 2m long, with 12 SC duplex OM3 adapters (Schrack Technik HSELS243CP or equivalent)	pcs	7	138.88	972.16	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- optical patch cord multimode SC duplex - LC duplex OM3, length 2m, LSZH (Schrack Technik HLP23LC02F or equivalent)	pcs	30	10.46	313.82	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- optical patch cord E2000/APC - LC duplex G657, length 2m, LSZH	pcs	8	22.01	176.06	Others	Material
5.7	Subotica	COMMON COMMUNICATION NETWORK	- optical patch cord multimode LC duplex - LC duplex OM3, length 10m, LSZH (Schrack Technik HLP23LL10F or equivalent)	pcs	6	19.87	119.21	Others	Material